COACHING FOR COMPETITIVE EXAMINATIONS 2021-2022

OFFICE OF THE PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Ref No: **Date:16.08.2021**

NOTICE

All the students of B. Pharm Final year are hereby informed **"Coaching for Competitive Exams (GPAT)"** will be commenced from **20.08.2021 to 28.01.2022 (Only Saturday and Sunday Both Online and offline mode)** as per the schedule. Hence all, students are instructed to attend classes without fail.

SL NO	SUBJECT	NAME OF THE FACULTY
01	PHARMACOLOGY	Mr. SUJIT KUMAR MARTHA
02	PHARMACEUTICS	Mr. CHANDAN NAYAK
03	PHARMACOGNOSY	Dr. PRWTHIRAJ MOHAPATRA
04	MICROBIOLOGY & BIOTECHNOLOGY	Mr. VIKRAM VISWAJIT MISHRA
05	PHARMACEUTICAL ANALYSIS	Mrs. MAZMA BEGUM
06	MEDICINAL CHEMISTRY	Mr. SAROJ SAHOO

Note: Classes will be commenced from 2.00 pm to 4.00 pm

PRINCIPAL

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JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

JEYPORE COLLEGE OF PHARMACY, JEYPORE -764002

GPAT COACHING TIMETABLE 2021-2022, W.E.F: -22.08.2021

SL.NO	DATE	SUBJECT	SL.NO	DATE	SUBJECT
1	22.08.2021	Pharmaceutics	21	14.11.2021	Pharmaceutical Analysis
2	29.08.2021	Pharmacognosy	22	20.11.2021	Pharmaceutics
3	04.09.2021	Pharmacology	23	21.11.2021	Pharmacognosy
4	05.09.2021	Microbiology	24	28.11.2021	Pharmacology
5	11.09.2021	Biotechnology	25	04.12.2021	Microbiology
6	12.09.2021	Medicinal Chemistry	26	05.12.2021	Biotechnology
7	18.09.2021	Pharmaceutical Analysis	27	11.12.2021	Medicinal Chemistry
8	19.09.2021	Pharmaceutics	28	12.12.2021	Pharmaceutical Analysis
9	25.09.2021	Pharmacognosy	29	18.12.2021	Pharmaceutics
10	26.09.2021	Pharmacology	30	19.12.2021	Pharmacognosy
11	03.10.2021	Microbiology	31	25.12.2021	Pharmacology
12	04.10.2021	BIOTECHNOLOGY	32	02.01.2022	Microbiology
13	10.10.2021	Medicinal Chemistry	33	08.01.2022	Biotechnology
14	23.10.2021	Pharmaceutical Analysis	34	09.01.2022	Medicinal Chemistry
15	24.10.2021	Pharmaceutics	35	15.01.2022	Pharmaceutical Analysis
16	30.10.2021	Pharmacognosy	36	16.01.2022	Pharmaceutics
17	31.10.2021	Pharmacology	37	22.01.2022	Pharmacognosy
18	06.11.2021	Microbiology			
19	07.11.2021	Biotechnology			
20	13.11.2021	Medicinal Chemistry			

PHARMACOLOGY: **Mr. SUJIT KUMAR MARTHA**

PHARMACEUTICS: **Mr. CHANDAN NAYAK**

PHARMACOGNOSY: **Dr. PRWTHIRAJ MOHAPATRA**

MICROBIOLOGY & BIOTECHNOLOGY: **Mr. VIKRAM VISWAJIT MISHRA**

PHARMACEUTICAL ANALYSIS: **Mrs. MAZMA BEGUM**

MEDICINAL CHEMISTRY: **Mr. SAROJ SAHOO**

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Ref No.: Date:

REPORT

NAME OF THE PROGRAM: Coaching for Competitive Exams (GPAT)

DATE: 20.08.2021 to 28.01.2022

RESOURCE PERSON DETAILS:

1. **Mr. Sujit Kumar Martha**
   Associate Professor
   Dept. of Pharmacology
   Jeypore College of Pharmacy
   E-mail: sujit.martha@gmail.com
   Phone No: +91 9437389954
2. **Mr. Chandan Nayak**
   Asst. Professor
   Dept. of Pharmaceutics
   Jeypore College of Pharmacy
   E-Mail: chandannayak92@yahoo.com
   Phone No: 7008318608
3. **Dr. Prithwiraj Mohapatra**
   Professor
   Dept. Pharmacognosy
   Jeypore College of Pharmacy
   E-Mail: prithwirajm@gmail.com
   Phone no: +91 7978517895
4. **Mr. Vikram Viswajit Mishra**
   Associate Professor
   Dept. of Pharmaceutical technology
   Jeypore College of Pharmacy
   E-Mail: vikram2only@gmail.com
   Phone no: +91 9937663405

Ref No.: Date:

5. **Mrs. Mazma Begum**
   Asst. Professor
   Dept. of Pharmaceutical Analysis
   Jeypore College of Pharmacy
   E-Mail: begummazma@gmail.com
   Ph.no: 9438374083
6. **Mr. Saroj Kumar Sahoo**
   Associate Professor
   Dept. of Pharma Chemistry
   Jeypore College of Pharmacy
   E-Mail: saroj21d@yahoo.co.in
   Phone no: 7978639765

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Ref No.: Date:

Jeypore College of Pharmacy organized coaching for GPAT exams on the date **20.08.2021 to 28.01.2022.** The course is specially designed for B. Pharm students who will appear for GPAT -2022 with the aim of coaching students regarding the examination process and preparation technique.

Outcomes:

To understand the concept of nationalized Graduated Pharmacy Aptitude test (GPAT)

Preparation for the examination and acquiring skills to qualify for the exam.

To compare the significance of the syllabus.

To explore opportunities with GPAT Qualification.

Act as study material for final year Degree preparation.

A number of objective types of questions supplement the theory.

Students expressed their happiness and conveyed the need to conduct more such programs. **Dr. Sangram Keshari Panda, the Principal** acknowledges the resource persons for sharing valuable information with the students. About 215 nos. of students participated in this program

Fig.1. Mr. Sujit Kumar Martha, Dept of Pharmacology

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JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)
Approved by Government of Odisha, All India Council for Technical Education, New Delhi
Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

NAME OF THE PROGRAM: Coaching for Competitive Exams (GPAT)

DATE: 23.08.2021 to 28.02.2022 **ACADEMIC YEAR:2021-2022**

LIST OF STUDENTS ENROLLED

Sl.No.	Regd. No.	Name of the Students	Year/ Program
1	1803268001	ABINASH SINHA	IV/B.PHARM
2	1803268002	ADITYA NARAYANA SAHU	IV/B.PHARM
3	1803268003	AISHWARYA BHUMIJ	IV/B.PHARM
4	1803268005	AKASH DASH	IV/B.PHARM
5	1803268006	AKASH KUMAR BADATYA	IV/B.PHARM
6	1803268007	AKASH KUMAR MOHANTY	IV/B.PHARM
7	1803268008	ALIBHA SENAPATI	IV/B.PHARM
8	1803268009	ALISHA MISHRA	IV/B.PHARM
9	1803268010	ANISHA RATH	IV/B.PHARM
10	1803268011	ANJALI THAKUR	IV/B.PHARM
11	1803268012	ANJAN BEHERA	IV/B.PHARM
12	1803268013	ANKITA PATI	IV/B.PHARM
13	1803268014	ANKUSH PATEL	IV/B.PHARM
14	1803268016	ASHUTOSH DAS	IV/B.PHARM
15	1803268017	ASHUTOSH PANDA	IV/B.PHARM
16	1803268018	ASISH RATH	IV/B.PHARM
17	1803268019	BABULA HARIJAN	IV/B.PHARM
18	1803268020	BASUDEV MINIAKA	IV/B.PHARM
19	1803268021	BIKRAM BEHERA	IV/B.PHARM
20	1803268022	BIPLAB SARKAR	IV/B.PHARM
21	1803268023	BISHALRAJ DASH	IV/B.PHARM
22	1803268024	BISWAJIT PATTNAIK	IV/B.PHARM
23	1803268025	BISWANTAH BIRI	IV/B.PHARM
24	1803268026	BITIKA MONDAL	IV/B.PHARM
25	1803268027	CHINMOYI CHAKRAVARTY	IV/B.PHARM
26	1803268028	DEBASISH PATTNAIK	IV/B.PHARM
27	1803268029	DEBASISH SUMANTA	IV/B.PHARM
28	1803268031	DHANANJAY MISTRY	IV/B.PHARM
29	1803268032	G V DURGAMANI	IV/B.PHARM
30	1803268033	GUPTESWAR SAHUKAR	IV/B.PHARM
31	1803268034	HARABATI MAJHI	IV/B.PHARM
32	1803268035	HARI JANI	IV/B.PHARM
33	1803268037	JIMIMA BARLA	IV/B.PHARM
34	1803268038	JYOTI PRADA SITHA	IV/B.PHARM

Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha
Ph: (06854) 291221, Fax: (06854) 246955
Visit us: www.pharmajeypoe.org, www.jcp.ac.in E-mail: jcpprincipal2001@gmail.com

Ref No.: **Date:**

35	1803268039	KHUSBOO DEBNATH	IV/B.PHARM
36	1803268040	LIZA BEHERA	IV/B.PHARM
37	1803268041	LUCKY LAMTA	IV/B.PHARM
38	1803268042	MAHESWARI BAGH	IV/B.PHARM
39	1803268043	MAHIMA SAHU	IV/B.PHARM
40	1803268044	MANISH KUMAR PANDA	IV/B.PHARM
41	1803268045	MANOTOSH PADHI	IV/B.PHARM
42	1803268046	MANPREET SINGH NAG	IV/B.PHARM
43	1803268048	MOHAMMAD ATAULLA KHAN	IV/B.PHARM
44	1803268049	MOHIT SAIRAM PATHI	IV/B.PHARM
45	1803268050	MONALISA NAYAK	IV/B.PHARM
46	1803268052	NAMRATA PAUL	IV/B.PHARM
47	1803268053	NIKHIL DASH	IV/B.PHARM
48	1803268054	NILAKANTHA DAS	IV/B.PHARM
49	1803268055	NITESH SHORI	IV/B.PHARM
50	1803268056	OMPRAKASH MAJHI	IV/B.PHARM
51	1803268057	PADMANABHA MALI	IV/B.PHARM
52	1803268058	PANKAJ KUMAR SWAIN	IV/B.PHARM
53	1803268059	PAPUN NAHAK	IV/B.PHARM
54	1803268060	PRAMATH GAIN	IV/B.PHARM
55	1803268061	PRASENJIT MAJUMDAR	IV/B.PHARM
56	1803268062	PRATIKSHA JOSHI	IV/B.PHARM
57	1803268063	PRATYUSH PATNAIK	IV/B.PHARM
58	1803268064	PRIYABRATA PANDA	IV/B.PHARM
59	1803268065	PRIYANKA BISOI	IV/B.PHARM
60	1803268066	RAHUL BISWAS	IV/B.PHARM
61	1803268067	RAJESHITIRANJAN DHAL	IV/B.PHARM
62	1803268068	RAVVA VENKATA BALAJI	IV/B.PHARM
63	1803268069	ROHIT KUMAR BISOI	IV/B.PHARM
64	1803268070	ROHIT KUMAR GOUDA	IV/B.PHARM
65	1803268072	SAILESH KUMAR ANDHAKURI	IV/B.PHARM
66	1803268073	SANGEETA DASH	IV/B.PHARM
67	1803268074	SANTOSH KUMAR NAYAK	IV/B.PHARM
68	1803268075	SAPNA DAS	IV/B.PHARM
69	1803268076	SARITA SAHU	IV/B.PHARM
70	1803268077	SARMISTHA PATRO	IV/B.PHARM
71	1803268078	SAROJ KUMAR PASAYAT	IV/B.PHARM
72	1803268081	SHREEKANT KUMAR NEGI	IV/B.PHARM
73	1803268082	SIBA PRASAD PANDA	IV/B.PHARM
74	1803268083	SIBA PRASAD PATTNAYAK	IV/B.PHARM
75	1803268084	SIBA SANKAR NAYAK	IV/B.PHARM

76	1803268085	SIBASISH SAMANTRAY	IV/B.PHARM
77	1803268086	SIDHANTA SAHU	IV/B.PHARM
78	1803268087	SIMANCHAL NAYAK	IV/B.PHARM
79	1803268088	SIPRA MANJARI JOSHI	IV/B.PHARM
80	1803268089	SONIYA PATTNAIK	IV/B.PHARM
81	1803268090	SOURAV RAY	IV/B.PHARM
82	1803268091	SUBHAM JENA	IV/B.PHARM
83	1803268093	SUBHENDU ROUT	IV/B.PHARM
84	1803268094	SUBRAT KUMAR MANGARAJ	IV/B.PHARM
85	1803268095	SUDHANSHU PRASAD BADATYA	IV/B.PHARM
86	1803268096	SUDHANSU SAHU	IV/B.PHARM
87	1803268097	SUMANTA RAY	IV/B.PHARM
88	1803268098	SUNENA MOHAPATRA	IV/B.PHARM
89	1803268099	SURAJ MANDAL	IV/B.PHARM
90	1803268100	SURAJ PATRO	IV/B.PHARM
91	1903268001	ABHIJEET MISHRA	III/B.PHARM
92	1903268002	ABHISHEK PANIGRAHI	III/B.PHARM
93	1903268003	ABINASH SINGH	III/B.PHARM
94	1903268004	ABISHEK MURGO	III/B.PHARM
95	1903268005	ADIT GIRI	III/B.PHARM
96	1903268006	AJAY KUMAR MOHANTA	III/B.PHARM
97	1903268007	AJAY KUMAR PATTNAIK	III/B.PHARM
98	1903268008	ALBERT BAGH	III/B.PHARM
99	1903268009	ALEM JOHNSON NAYAK	III/B.PHARM
100	1903268010	ALOK PAIKRAY	III/B.PHARM
101	1903268011	AMIT ANUPAM ROUTRAY	III/B.PHARM
102	1903268012	AMIT BEHERA	III/B.PHARM
103	1903268013	ANAND KUMAR DASH	III/B.PHARM
104	1903268014	ANJALI RATH	III/B.PHARM
105	1903268015	ANKIT KUMAR PANDA	III/B.PHARM
106	1903268016	ARABINDA PRADHAN	III/B.PHARM
107	1903268017	ARIJIT MOHARANA	III/B.PHARM
108	1903268018	ATULYA KUMAR SAHU	III/B.PHARM
109	1903268020	BAPUJI PANDA	III/B.PHARM
110	1903268022	BARSHA MOHANTY	III/B.PHARM
111	1903268023	BHAGABAN BEHERA	III/B.PHARM
112	1903268025	BINATA MADHI	III/B.PHARM
113	1903268026	BIRENDRA KUMAR NAYAK	III/B.PHARM
114	1903268027	CHANDAN KUMAR SAHU	III/B.PHARM
115	1903268028	CHINMAYA KUMAR SAHU	III/B.PHARM

Ref No.: **Date:**

116	1903268029	CHIRANJIT MANDAL	III/B.PHARM
117	1903268030	DEBABRATA KABIR	III/B.PHARM
118	1903268032	DEBASIS MAHATO	III/B.PHARM
119	1903268034	DEEPTISIKHA NAYAK	III/B.PHARM
120	1903268035	DEVI PRASAD MAHANTY	III/B.PHARM
121	1903268036	DHIRAJ MALLICK	III/B.PHARM
122	1903268037	DINESH CHANDRA SAMANT	III/B.PHARM
123	1903268038	GANESH NISONKO	III/B.PHARM
124	1903268039	GANTA UTTEJ	III/B.PHARM
125	1903268040	GATI KRUSHNA PANDA	III/B.PHARM
126	1903268041	GOUTAMI JANI	III/B.PHARM
127	1903268042	GULSON KUMAR SAHOO	III/B.PHARM
128	1903268043	GUPTESWAR PANIGRAHI	III/B.PHARM
129	1903268045	HITESH PATRA	III/B.PHARM
130	1903268046	JAGANNATH RAI	III/B.PHARM
131	1903268047	KANHAIYA GARG	III/B.PHARM
132	1903268048	LIPAN KUMAR DAS	III/B.PHARM
133	1903268049	MADHULIKA SINGH	III/B.PHARM
134	1903268050	MAHAMAD KASIM	III/B.PHARM
135	1903268052	MOHIT SHUKLA	III/B.PHARM
136	1903268054	NILAKANTHA SARANGI	III/B.PHARM
137	1903268055	NIRUPAMA ACHARYA	III/B.PHARM
138	1903268056	NISHA SAHA	III/B.PHARM
139	1903268058	PINKU BEHERA	III/B.PHARM
140	1903268060	PRASANJIT MONDAL	III/B.PHARM
141	1903268061	PRATIKSHYA PUJARI	III/B.PHARM
142	1903268062	PRIYANSHU SHRIVASTAVA	III/B.PHARM
143	1903268063	RADHASHYAM TRIPATHY	III/B.PHARM
144	1903268064	RAHUL PANGI	III/B.PHARM
145	1903268065	RAHUL ROY	III/B.PHARM
146	1903268066	RAHULRAJ PATRO	III/B.PHARM
147	1903268067	RUDRA PRASAD MISHRA	III/B.PHARM
148	1903268068	S PUJA PATRA	III/B.PHARM
149	1903268069	SAMRAT DAS	III/B.PHARM
150	1903268070	SAMRAT SARKAR	III/B.PHARM
151	1903268072	SANDEEP KUMAR BERA	III/B.PHARM
152	1903268073	SANGRAM KESHARI BAG	III/B.PHARM
153	1903268074	SANGRAM KUMAR SINGHA	III/B.PHARM
154	1903268075	SANTOSH KUMAR GOCHHAYAT	III/B.PHARM
155	1903268076	SATYABRATA BEHERA	III/B.PHARM

156	1903268077	SHRI CHANDANA JENA	III/B.PHARM
157	1903268078	SOHAN KUMAR SAHU	III/B.PHARM
158	1903268079	SONALI SATAPATHY	III/B.PHARM
159	1903268080	SOUMYA SUCHARITA NAYAK	III/B.PHARM
160	1903268082	SRUTI BHARGAVI PATNAIK	III/B.PHARM
161	1903268083	SUBHAM TRIPATHY	III/B.PHARM
162	1903268084	SUBHASIS MAJHI	III/B.PHARM
163	1903268085	SUBHRANSU GOUDA	III/B.PHARM
164	1903268086	SUMIT BISWAS	III/B.PHARM
165	1903268087	SWETA JENA	III/B.PHARM
166	1903268088	TARAKANTA LENKA	III/B.PHARM
167	1903268089	TRUPTIRANI MOHANTY	III/B.PHARM
168	1903268090	TUSAR RANJAN MOHANTY	III/B.PHARM
169	1903268091	V GOURI SAI SEKHAR	III/B.PHARM
170	1903268092	VISHAL GARADA	III/B.PHARM
171	1903268093	MAMALI GHADAI	III/B.PHARM
172	1903268094	MANGALA MUDULI	III/B.PHARM
173	2003268001	ADITYA KUMAR NAYAK	II/B.PHARM
174	2003268002	ADITYA PANIGRAHI	II/B.PHARM
175	2003268003	ADITYA SAHU	II/B.PHARM
176	2003268004	AKASH KUMAR SAMAL	II/B.PHARM
177	2003268005	AMRUT MOHAN PRASAD SAHU	II/B.PHARM
178	2003268006	ANJANA NAMO	II/B.PHARM
179	2003268007	ASISH MISTRY	II/B.PHARM
180	2003268008	ASISH SWAIN	II/B.PHARM
181	2003268009	BAIJUNATH SAHOO	II/B.PHARM
182	2003268010	BEAUTY BAGH	II/B.PHARM
183	2003268011	BHOGILA NIKHIL KUMAR PATTNAIK	II/B.PHARM
184	2003268012	BISWAJIT SAHOO	II/B.PHARM
185	2003268013	DEBASIS KARTUL	II/B.PHARM
186	2003268014	DEEPAK KUMAR POLAI	II/B.PHARM
187	2003268015	DIWANA BEHERA	II/B.PHARM
188	2003268016	GOONJAN SATPATHY	II/B.PHARM
189	2003268017	ISAAC BAGH	II/B.PHARM
190	2003268018	JYOTIRMAYA BALA	II/B.PHARM
191	2003268019	KISHOR BALA	II/B.PHARM
192	2003268020	MAGAN HARIJAN	II/B.PHARM
193	2003268021	MEGHANAD ROUT	II/B.PHARM
194	2003268022	NIBEDITA CHAKRABARTI	II/B.PHARM
195	2003268023	NIKHIL KUMAR BHANJ	II/B.PHARM

Ref No.: **Date:**

196	2003268024	PATRO SONALI BHIMSENBHAI	II/B.PHARM
197	2003268025	PREM JOSHI MILIT	II/B.PHARM
198	2003268026	PRIYANKA BAIRAGI	II/B.PHARM
199	2003268027	RAHUL MAJUMDAR	II/B.PHARM
200	2003268028	RAJESH KUMAR NAYAK	II/B.PHARM
201	2003268029	RAJESH SABAT	II/B.PHARM
202	2003268030	SABYASACHI SAHOO	II/B.PHARM
203	2003268031	SALONI DASH	II/B.PHARM
204	2003268032	SANKAR PRASAD NAYAK	II/B.PHARM
205	2003268033	SANTOSH KHILLO	II/B.PHARM
206	2003268034	SANTOSH KUMAR SUKLA	II/B.PHARM
207	2003268035	SARAT KUMAR MADHI	II/B.PHARM
208	2003268036	SARITA MAHARANA	II/B.PHARM
209	2003268037	SHIBANANDA PANDA	II/B.PHARM
210	2003268038	SIBA MANDAL	II/B.PHARM
211	2003268039	SILU SAHU	II/B.PHARM
212	2003268040	SK. SAHIL	II/B.PHARM
213	2003268041	SMRUTI RANJAN NAYAK	II/B.PHARM
214	2003268042	SOURAV KUMAR BEHERA	II/B.PHARM
215	2003268043	SRABAN KUMAR PANDA	II/B.PHARM

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COACHING FOR COMPETITIVE EXAMINATIONS 2020-2021

OFFICE OF THE PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Ref No: **Date:01.09.2020**

NOTICE

All the students of B. Pharm Final year are hereby informed **"Online coaching for GPAT"** will be commenced from **05.09.2020 to 06.01.2021(Only Saturday and Sunday Online mode through Google Meet)** as per the schedule. Hence all, students are instructed to attend classes without fail.

SL NO	SUBJECT	NAME OF THE FACULTY
01	PHARMACOLOGY	Mr. SUJIT KUMAR MARTHA
02	PHARMACEUTICS	Mr. CH. GOURI SHANKAR
03	PHARMACOGNOSY	Dr. PRWTHIRAJ MOHAPATRA
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06	MEDICINAL CHEMISTRY	Mr. SAROJ SAHOO

Note: Classes will be commenced from 2.00 pm to 4.00 pm

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GPAT COACHING TIMETABLE 2020-2021, W.E.F: -05.09.2020

SL.NO	DATE	SUBJECT	SL.NO	DATE	SUBJECT
1	05.09.2020	Pharmaceutics	17	08.11.2020	Pharmacology
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9	03.10.2020	Pharmacognosy	25	12.12.2020	Microbiology
10	04.10.2020	Pharmacology	26	13.12.2020	Biotechnology
11	10.10.2020	Microbiology	27	19.12.2020	Medicinal Chemistry
12	11.10.2020	Biotechnology	28	20.12.2020	Pharmaceutical Analysis
13	17.10.2020	Medicinal Chemistry	29	26.12.2020	Pharmaceutics
14	18.10.2020	Pharmaceutical Analysis	30	27.12.2020	Pharmacognosy
15	01.11.2020	Pharmaceutics	31	02.01.2021	Pharmacology
16	07.11.2020	Pharmacognosy	32	03.01.2021	Microbiology

PHARMACOLOGY: Mr. SUJIT KUMAR MARTHA

PHARMACEUTICS: Mr. CH. GOURI SHANKAR

PHARMACOGNOSY: Dr. PRWTHIRAJ MOHAPATRA

MICROBIOLOGY & BIOTECHNOLOGY: Mr. VIKRAM VISWAJIT MISHRA

PHARMACEUTICAL ANALYSIS: Dr. KIRTIMAYA MISHRA

MEDICINAL CHEMISTRY: Mr. SAROJ SAHOO

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Ref No.: Date:

REPORT

NAME OF THE PROGRAM: Online coaching for GPAT

DATE: 05.09.2020 to 06.01.2021

RESOURCE PERSON DETAILS:

1. **Mr. Sujit Kumar Martha**
   Associate Professor
   Dept. of Pharmacology
   Jeypore College of Pharmacy
   E-mail: sujit.martha@gmail.com
   Phone No: +91 9437389954
2. **Mr. Ch. Gouri Shankar**
   Asst. Professor
   Dept. of Pharmaceutics
   Jeypore College of Pharmacy
   E-Mail: chintapalli.sankar@gmail.com
   Phone no: 9676380782
3. **Dr. Prithwiraj Mohapatra**
   Professor
   Dept. Pharmacognosy
   Jeypore College of Pharmacy
   E-Mail: prithwirajm@gmail.com
   Phone no: +91 7978517895
4. **Mr. Vikram Viswajit Mishra**
   Associate Professor
   Dept. of Pharmaceutical technology
   Jeypore College of Pharmacy
   E-Mail: vikram2only@gmail.com
   Phone no: +91 9937663405

Ref No.: Date:

5. **Dr. Kirtimaya Mishra**
   Associate. Professor
   Dept. of Pharmaceutical Analysis
   Jeypore College of Pharmacy
   E-Mail; kritimishra.pharma@gmail.com
   Phone no: 9944937088
6. **Mr. Saroj Sahoo**
   Associate. Professor
   Dept. of Pharmaceutical Chemistry
   Jeypore College of Pharmacy
   E-Mail: saroj21d@yahoo.co.in
   Phone no: 7978639765

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JEYPORE COLLEGE OF PHARMACY
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Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

Jeypore College of Pharmacy organized coaching for GPAT exams on the date **05.09.2020 to 06.01.2021.** The course is specially designed for B. Pharm students who will appear for GPAT -2021 with the aim of coaching students regarding the examination process and preparation technique.

Outcomes:

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Preparation for the examination and acquiring skills to qualify for the exam.

To compare the significance of the syllabus.

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Students expressed their happiness and conveyed the need to conduct more such programs. **Dr. Sangram Keshari Panda, the Principal** acknowledges the resource persons for sharing valuable information with the students. About 196 nos. of students enrolled in this program

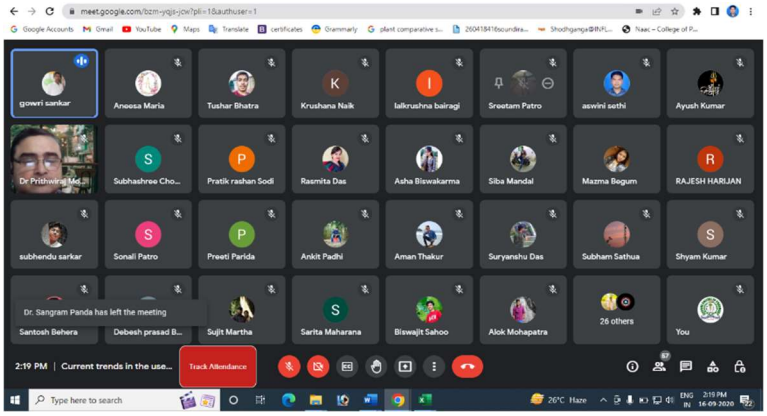

Fig:1. Mr. Ch. Gouri Shankar, Dept. Of Pharmaceutics

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha
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Ref No.: Date:

NAME OF THE PROGRAM: Online coaching for GPAT

DATE: 05.09.2020 to 06.01.2021 **ACADEMIC YEAR:2020-2021**

LIST OF STUDENTS ENROLLED

Sl.No.	Regd. No.	Name of the Students	Year/ Program
1	1703268001	ROSHAN KUMAR MALLICK	IV/B.PHARM
2	1703268002	HARSHA VISHWAKARMA	IV/B.PHARM
3	1703268003	DINABANDHU SARKAR	IV/B.PHARM
4	1703268004	AAKRAM ALLI	IV/B.PHARM
5	1703268005	BIKRAM SINGH	IV/B.PHARM
6	1703268006	SUNIL KUMAR PRADHAN	IV/B.PHARM
7	1703268007	RAM KRISHNA PANGI	IV/B.PHARM
8	1703268008	TRILOCHAN PRADHAN	IV/B.PHARM
9	1703268009	PRIYADARSHINI MAHARATHA	IV/B.PHARM
10	1703268010	SRITAM PATTNAIK	IV/B.PHARM
11	1703268011	SUCHITRA MALI	IV/B.PHARM
12	1703268012	AMIR MALI	IV/B.PHARM
13	1703268013	SIDHARTH MALLICK	IV/B.PHARM
14	1703268014	PAWAN KUMAR PANDA	IV/B.PHARM
15	1703268015	ANANYA TRIPATHY	IV/B.PHARM
16	1703268016	PARTHA MANDAL	IV/B.PHARM
17	1703268017	LAXMIKANT RATH	IV/B.PHARM
18	1703268018	NITESH AGRAWAL	IV/B.PHARM
19	1703268019	ALIVA GIRI	IV/B.PHARM
20	1703268020	PRABIN KUMAR SWAIN	IV/B.PHARM
21	1703268021	ANISH KUMAR SINGH	IV/B.PHARM
22	1703268022	SANTOSH KUMAR PARIDA	IV/B.PHARM
23	1703268023	SUBHAMSHREE SIKUN MOHANTY	IV/B.PHARM
24	1703268024	MONTU KHOSLA	IV/B.PHARM
25	1703268025	JAGADISH RANA	IV/B.PHARM
26	1703268026	SUBHENDU BAGCHI	IV/B.PHARM
27	1703268027	NAREN BEHERA	IV/B.PHARM
28	1703268028	DINESH KUMAR PADHI	IV/B.PHARM
29	1703268029	RAHUL PAUL	IV/B.PHARM
30	1703268030	SIBANI PALO	IV/B.PHARM

Ref No.: **Date:**

31	1703268031	AMIT KUMAR NAYAK	IV/B.PHARM
32	1703268032	HEMASARA PUJARI	IV/B.PHARM
33	1703268033	SANATANA SAHU	IV/B.PHARM
34	1703268034	TAPASWINI BARIK	IV/B.PHARM
35	1703268035	AKSHAYA PRASAD RATH	IV/B.PHARM
36	1703268036	ABHISHEK MOHAPATRA	IV/B.PHARM
37	1703268037	BISWAJEET SAHU	IV/B.PHARM
38	1703268038	NANDI SAHU	IV/B.PHARM
39	1703268039	TANUJA MONDAL	IV/B.PHARM
40	1703268040	SUNIL KUMAR JENA	IV/B.PHARM
41	1703268041	ALISA PANIGRAHI	IV/B.PHARM
42	1703268042	KHETRABASI SHABAR	IV/B.PHARM
43	1703268043	CHUDAMANI SAHU	IV/B.PHARM
44	1703268044	UMASANKAR BISOI	IV/B.PHARM
45	1703268045	UTTAPAL DEBNATH	IV/B.PHARM
46	1703268046	ABHISEK DOLAI	IV/B.PHARM
47	1703268047	BHASKAR DISARI	IV/B.PHARM
48	1703268048	ABHIJEET SRIKANT RAUT	IV/B.PHARM
49	1703268049	ALOK TAPAN PRADHAN	IV/B.PHARM
50	1703268050	BIKRAM BHADRA	IV/B.PHARM
51	1703268051	MANAS RANJAN SAHU	IV/B.PHARM
52	1703268052	ADITYA BHATT	IV/B.PHARM
53	1703268053	PRAMOD KUMAR ASHA	IV/B.PHARM
54	1703268054	DHIRAJ KUMAR MALLICK	IV/B.PHARM
55	1703268055	SAROJ DANGRI	IV/B.PHARM
56	1703268056	SANKAR PRASAD MOHPATRA	IV/B.PHARM
57	1703268057	CHANDRA SEKHAR SAHU	IV/B.PHARM
58	1703268058	NARAYAN GUNTHA	IV/B.PHARM
59	1703268059	PRATYUSH PANDA	IV/B.PHARM
60	1703268060	SAMBHU PRADHAN	IV/B.PHARM
61	1703268061	TEJASWINI MISHRA	IV/B.PHARM
62	1703268062	DEEPAK JODDAR	IV/B.PHARM
63	1703268063	PRIYANKA RANI SAHU	IV/B.PHARM
64	1703268064	DAMU SISA	IV/B.PHARM
65	1703268065	SIDHANT KUMAR PATRA	IV/B.PHARM
66	1703268066	GANESH CHANDRA PADHY	IV/B.PHARM
67	1703268067	SUDESH PRASAD PALLI	IV/B.PHARM
68	1703268068	MANAMOHAN BADACHAT	IV/B.PHARM
69	1703268069	ROHIT KUMAR AGRAWAL	IV/B.PHARM
70	1703268070	DOLAGOBINDA MAJHI	IV/B.PHARM

Ref No.: **Date:**

71	1803268001	ABINASH SINHA	III/B.PHARM
72	1803268002	ADITYA NARAYANA SAHU	III/B.PHARM
73	1803268003	AISHWARYA BHUMIJ	III/B.PHARM
74	1803268005	AKASH DASH	III/B.PHARM
75	1803268006	AKASH KUMAR BADATYA	III/B.PHARM
76	1803268007	AKASH KUMAR MOHANTY	III/B.PHARM
77	1803268008	ALIBHA SENAPATI	III/B.PHARM
78	1803268009	ALISHA MISHRA	III/B.PHARM
79	1803268010	ANISHA RATH	III/B.PHARM
80	1803268011	ANJALI THAKUR	III/B.PHARM
81	1803268012	ANJAN BEHERA	III/B.PHARM
82	1803268013	ANKITA PATI	III/B.PHARM
83	1803268014	ANKUSH PATEL	III/B.PHARM
84	1803268016	ASHUTOSH DAS	III/B.PHARM
85	1803268017	ASHUTOSH PANDA	III/B.PHARM
86	1803268018	ASISH RATH	III/B.PHARM
87	1803268019	BABULA HARIJAN	III/B.PHARM
88	1803268020	BASUDEV MINIAKA	III/B.PHARM
89	1803268021	BIKRAM BEHERA	III/B.PHARM
90	1803268022	BIPLAB SARKAR	III/B.PHARM
91	1803268023	BISHALRAJ DASH	III/B.PHARM
92	1803268024	BISWAJIT PATTNAIK	III/B.PHARM
93	1803268025	BISWANTAH BIRI	III/B.PHARM
94	1803268026	BITIKA MONDAL	III/B.PHARM
95	1803268027	CHINMOYI CHAKRAVARTY	III/B.PHARM
96	1803268028	DEBASISH PATTNAIK	III/B.PHARM
97	1803268029	DEBASISH SUMANTA	III/B.PHARM
98	1803268031	DHANANJAY MISTRY	III/B.PHARM
99	1803268032	G V DURGAMANI	III/B.PHARM
100	1803268033	GUPTESWAR SAHUKAR	III/B.PHARM
101	1803268034	HARABATI MAJHI	III/B.PHARM
102	1803268035	HARI JANI	III/B.PHARM
103	1803268037	JIMIMA BARLA	III/B.PHARM
104	1803268038	JYOTI PRADA SITHA	III/B.PHARM
105	1803268039	KHUSBOO DEBNATH	III/B.PHARM
106	1803268040	LIZA BEHERA	III/B.PHARM
107	1803268041	LUCKY LAMTA	III/B.PHARM
108	1803268042	MAHESWARI BAGH	III/B.PHARM
109	1803268043	MAHIMA SAHU	III/B.PHARM
110	1803268044	MANISH KUMAR PANDA	III/B.PHARM
111	1803268045	MANOTOSH PADHI	III/B.PHARM

112	1803268046	MANPREET SINGH NAG	III/B.PHARM
113	1803268048	MOHAMMAD ATAULLA KHAN	III/B.PHARM
114	1803268049	MOHIT SAIRAM PATHI	III/B.PHARM
115	1803268050	MONALISA NAYAK	III/B.PHARM
116	1803268052	NAMRATA PAUL	III/B.PHARM
117	1803268053	NIKHIL DASH	III/B.PHARM
118	1803268054	NILAKANTHA DAS	III/B.PHARM
119	1803268055	NITESH SHORI	III/B.PHARM
120	1803268056	OMPRAKASH MAJHI	III/B.PHARM
121	1803268057	PADMANABHA MALI	III/B.PHARM
122	1803268058	PANKAJ KUMAR SWAIN	III/B.PHARM
123	1803268059	PAPUN NAHAK	III/B.PHARM
124	1803268060	PRAMATH GAIN	III/B.PHARM
125	1803268061	PRASENJIT MAJUMDAR	III/B.PHARM
126	1803268062	PRATIKSHA JOSHI	III/B.PHARM
127	1803268063	PRATYUSH PATNAIK	III/B.PHARM
128	1803268064	PRIYABRATA PANDA	III/B.PHARM
129	1803268065	PRIYANKA BISOI	III/B.PHARM
130	1803268066	RAHUL BISWAS	III/B.PHARM
131	1803268067	RAJESHITIRANJAN DHAL	III/B.PHARM
132	1803268068	RAVVA VENKATA BALAJI	III/B.PHARM
133	1803268069	ROHIT KUMAR BISOI	III/B.PHARM
134	1803268070	ROHIT KUMAR GOUDA	III/B.PHARM
135	1803268072	SAILESH KUMAR ANDHAKURI	III/B.PHARM
136	1803268073	SANGEETA DASH	III/B.PHARM
137	1803268074	SANTOSH KUMAR NAYAK	III/B.PHARM
138	1803268075	SAPNA DAS	III/B.PHARM
139	1803268076	SARITA SAHU	III/B.PHARM
140	1903268001	ABHIJEET MISHRA	II/B.PHARM
141	1903268002	ABHISHEK PANIGRAHI	II/B.PHARM
142	1903268003	ABINASH SINGH	II/B.PHARM
143	1903268004	ABISHEK MURGO	II/B.PHARM
144	1903268005	ADIT GIRI	II/B.PHARM
145	1903268006	AJAY KUMAR MOHANTA	II/B.PHARM
146	1903268007	AJAY KUMAR PATTNAIK	II/B.PHARM
147	1903268008	ALBERT BAGH	II/B.PHARM
148	1903268009	ALEM JOHNSON NAYAK	II/B.PHARM
149	1903268010	ALOK PAIKRAY	II/B.PHARM
150	1903268011	AMIT ANUPAM ROUTRAY	II/B.PHARM
151	1903268012	AMIT BEHERA	II/B.PHARM

Ref No.: **Date:**

152	1903268013	ANAND KUMAR DASH	II/B.PHARM
153	1903268014	ANJALI RATH	II/B.PHARM
154	1903268015	ANKIT KUMAR PANDA	II/B.PHARM
155	1903268016	ARABINDA PRADHAN	II/B.PHARM
156	1903268017	ARIJIT MOHARANA	II/B.PHARM
157	1903268018	ATULYA KUMAR SAHU	II/B.PHARM
158	1903268020	BAPUJI PANDA	II/B.PHARM
159	1903268022	BARSHA MOHANTY	II/B.PHARM
160	1903268023	BHAGABAN BEHERA	II/B.PHARM
161	1903268025	BINATA MADHI	II/B.PHARM
162	1903268026	BIRENDRA KUMAR NAYAK	II/B.PHARM
163	1903268027	CHANDAN KUMAR SAHU	II/B.PHARM
164	1903268028	CHINMAYA KUMAR SAHU	II/B.PHARM
165	1903268029	CHIRANJIT MANDAL	II/B.PHARM
166	1903268030	DEBABRATA KABIR	II/B.PHARM
167	1903268032	DEBASIS MAHATO	II/B.PHARM
168	1903268034	DEEPTISIKHA NAYAK	II/B.PHARM
169	1903268035	DEVI PRASAD MAHANTY	II/B.PHARM
170	1903268036	DHIRAJ MALLICK	II/B.PHARM
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174	1903268040	GATI KRUSHNA PANDA	II/B.PHARM
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176	1903268042	GULSON KUMAR SAHOO	II/B.PHARM
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180	1903268047	KANHAIYA GARG	II/B.PHARM
181	1903268048	LIPAN KUMAR DAS	II/B.PHARM
182	1903268049	MADHULIKA SINGH	II/B.PHARM
183	1903268050	MAHAMAD KASIM	II/B.PHARM
184	1903268052	MOHIT SHUKLA	II/B.PHARM
185	1903268054	NILAKANTHA SARANGI	II/B.PHARM
186	1903268055	NIRUPAMA ACHARYA	II/B.PHARM
187	1903268056	NISHA SAHA	II/B.PHARM
188	1903268058	PINKU BEHERA	II/B.PHARM
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190	1903268061	PRATIKSHYA PUJARI	II/B.PHARM
191	1903268062	PRIYANSHU SHRIVASTAVA	II/B.PHARM

Ref No.: **Date:**

192	1903268063	RADHASHYAM TRIPATHY	II/B.PHARM
193	1903268064	RAHUL PANGI	II/B.PHARM
194	1903268065	RAHUL ROY	II/B.PHARM
195	1903268066	RAHULRAJ PATRO	II/B.PHARM
196	1903268067	RUDRA PRASAD MISHRA	II/B.PHARM

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

COACHING FOR COMPETITIVE EXAMINATIONS 2019-2020

OFFICE OF THE PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Ref No: **Date:13.08.2019**

NOTICE

All the students of the B. Pharm Final year are hereby informed **"Coaching for Competitive Exams"** will be commenced from **19.08.2019 to 10.02.2020(Only Saturday)** as per the schedule. Hence all, students are instructed to attend classes without fail.

SL NO	SUBJECT	NAME OF THE FACULTY
01	PHARMACOLOGY	Mr. SUJIT KUMAR MARTHA
02	PHARMACEUTICS	Mr. CH. GOURISHANKAR
03	PHARMACOGNOSY	Dr. SANGRAM KESHARI PANDA
04	MICROBIOLOGY & BIOTECHNOLOGY	Mr. VIKRAM VISWAJIT MISHRA
05	PHARMACEUTICAL ANALYSIS	Miss. SINGDHARANI BEHERA
06	MEDICINAL CHEMISTRY	Mr. KIRTIMAYA MISHRA

Note: Classes will be commenced from 2.00 pm to 4.00 pm

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JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

JEYPORE COLLEGE OF PHARMACY, JEYPORE -764002

GPAT COACHING TIMETABLE 2019-2020, W.E.F: -31.08.2019

SL.NO	DATE	SUBJECT	SL.NO	DATE	SUBJECT
1	31.08.2019	Pharmaceutics	12	30.11.2019	Biotechnology
2	07.09.2019	Pharmacognosy	13	07.12.2019	Medicinal Chemistry
3	14.09.2019	Pharmacology	14	14.12.2019	Pharmaceutical Analysis
4	21.09.2019	Microbiology	15	21.12.2019	Pharmaceutics
5	12.10.2019	Biotechnology	16	28.12.2019	Pharmacognosy
6	19.10.2019	Medicinal Chemistry	17	04.01.2020	Pharmacology
7	26.10.2019	Pharmaceutical Analysis	18	11.01.2020	Microbiology
8	02.11.2019	Pharmaceutics	19	15.01.2020	Biotechnology
9	09.11.2019	Pharmacognosy	20	25.01.2020	Medicinal Chemistry
10	16.11.2019	Pharmacology	21	01.02.2020	Pharmaceutical Analysis
11	23.11.2019	Microbiology	22	08.02.2020	Pharmaceutics

PHARMACOLOGY: Mr. SUJIT KUMAR MARTHA

PHARMACEUTICS: Mr. CH. GOURISHANKAR

PHARMACOGNOSY: Dr. SANGRAM KESHARI PANDA

MICROBIOLOGY & BIOTECHNOLOGY: Mr. VIKRAM VISWAJIT MISHRA

PHARMACEUTICAL ANALYSIS: Miss. SINGDHARANI BEHERA

MEDICINAL CHEMISTRY: Mr. KIRTIMAYA MISHRA

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Ref No.: Date:

REPORT

NAME OF THE PROGRAM: Coaching for Competitive Exams

DATE: 19.08.2019 to 10.02.2020

RESOURCE PERSON DETAILS:

1. **Mr. Sujit Kumar Martha**
   Associate Professor
   Dept. of Pharmacology
   Jeypore College of Pharmacy
   E-mail: sujit.martha@gmail.com
   Phone No: +91 9437389954
2. **Mr. Ch. Gourishankar**
   Asst. Professor
   Dept. of Pharmaceutics
   Jeypore College of Pharmacy
   E-Mail: chintapalli.sankar@gmail.com
   Phone no: 9676380782
3. **Dr. Sangram Keshari Panda**
   Professor
   Dept. Pharmacognosy
   Jeypore College of Pharmacy
   E-Mail: sangrampanda2009@gmail.com
   Phone no: 9178141017
4. **Mr. Vikram Viswajit Mishra**
   Associate Professor
   Dept. of Pharmaceutical technology
   Jeypore College of Pharmacy
   E-Mail: vikram2only@gmail.com
   Phone no: +91 9937663405
5. **Miss. Singdharani Behera**
   Associate. Professor
   Dept. of Pharmaceutical Analysis
   Jeypore College of Pharmacy
   E-Mail: Sni_roldy@yahoo.com
   Phone no: 7382323937

Ref No.: Date:

6. **Mr. Kirtimaya Mishra**
Associate. Professor
Dept. of Pharmaceutical Analysis
Jeypore College of Pharmacy
E-Mail; kritimishra.pharma@gmail.com
Phone no: 9944937088

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Ref No.: Date:

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Outcomes:

To understand the concept of nationalized Graduated Pharmacy Aptitude test (GPAT)

Preparation for the examination and acquiring skills to qualify for the exam.

To compare the significance of the syllabus.

To explore opportunities with GPAT Qualification.

Act as study material for final year Degree preparation.

A number of objective types of questions supplement the theory.

Students expressed their happiness and conveyed the need to conduct more such programs. **Dr. Prasanna Kumar Kar, the Principal** acknowledges the resource persons for sharing valuable information with the students. About 199 nos. of students enrolled in this program

Fig:1. Mr. Vikram Viswajit Vinod Kumar Mishra, Dept of Pharmaceutical Technology

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha
Ph: (06854) 291221, Fax: (06854) 246955
Visit us: www.pharmajeypoe.org, www.jcp.ac.in E-mail: jcpprincipal2001@gmail.com

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Ref No.: Date:

NAME OF THE PROGRAM: Coaching for Competitive Exams

DATE: 19.08.2019 to 10.02.2020 **ACADEMIC YEAR:2019-2020**

LIST OF STUDENTS ENROLLED

SL.NO	Regd. No.	Name of the Students	YEAR/PROGRAM
1	1603268001	BASANTI KUMARI HARIJAN	**IV /B.PHARM**
2	1603268002	KUMARI PRIYAMBADA	**IV /B.PHARM**
3	1603268003	NARAYANASETTY HARISH KUMAR	**IV /B.PHARM**
4	1603268004	SUBHAM SAHU	**IV /B.PHARM**
5	1603268005	ABHILASH DASH	**IV /B.PHARM**
6	1603268006	ANWESA DEY	**IV /B.PHARM**
7	1603268007	ASUTOSH SAMAL	**IV /B.PHARM**
8	1603268008	ATALABIHARI SAHU	**IV /B.PHARM**
9	1603268009	BHABANI HARIJAN	**IV /B.PHARM**
10	1603268010	BIKASH KUMAR NAYAK	**IV /B.PHARM**
11	1603268011	BISHNU CHARAN DALAI	**IV /B.PHARM**
12	1603268012	BISWA RANJAN BISWAL	**IV /B.PHARM**
13	1603268013	BISWAJEET RAY	**IV /B.PHARM**
14	1603268014	DEBASISH TRIPATHY	**IV /B.PHARM**
15	1603268015	DEEPA MAJHI	**IV /B.PHARM**
16	1603268016	DIBYA RANJAN GOUDA	**IV /B.PHARM**
17	1603268017	DIPSHIKHA HOWLADAR	**IV /B.PHARM**
18	1603268018	GANESH CHANDRA DAKUA	**IV /B.PHARM**
19	1603268019	HRUSHIKESH NAIK	**IV /B.PHARM**
20	1603268020	JAGADISH JENA	**IV /B.PHARM**
21	1603268021	JARABIN KUMAR DUKHI	**IV /B.PHARM**
22	1603268022	KIRANMAYEE BHATRA	**IV /B.PHARM**
23	1603268023	MAHESWAR GUGA	**IV /B.PHARM**
24	1603268024	MANAS RANJAN PATNAIK	**IV /B.PHARM**
25	1603268025	MANASH RANJAN NAYAK	**IV /B.PHARM**

Ref No.: **Date:**

26	1603268026	MANISHANTA HIRA	**IV /B.PHARM**
27	1603268027	PAPUN KUMAR BAGH	**IV /B.PHARM**
28	1603268028	PRATYUSH KUMAR BRAHMA	**IV /B.PHARM**
29	1603268029	PRAYAS ROHAN PATRO	**IV /B.PHARM**
30	1603268030	PREETI GUPTA	**IV /B.PHARM**
31	1603268031	PREM RANJAN MADALA	**IV /B.PHARM**
32	1603268032	PRIYANKA MISHRA	**IV /B.PHARM**
33	1603268033	RAHUL BISWAS	**IV /B.PHARM**
34	1603268034	RAHUL SINGH TOMAR	**IV /B.PHARM**
35	1603268035	RAJIB NAYAK	**IV /B.PHARM**
36	1603268036	RAMESWAR RATH	**IV /B.PHARM**
37	1603268037	RANJEET KUMAR HARIJAN	**IV /B.PHARM**
38	1603268038	RUDRA NARAYAN MOHANTY	**IV /B.PHARM**
39	1603268039	SAMEER KUMAR BISOI	**IV /B.PHARM**
40	1603268040	SARITA HARIJAN	**IV /B.PHARM**
41	1603268041	SHARMILA DAS	**IV /B.PHARM**
42	1603268042	SHIBA PRASAD SWAIN	**IV /B.PHARM**
43	1603268043	SIDDHESWAR PATRA	**IV /B.PHARM**
44	1603268044	SISIR KUMAR NAYAK	**IV /B.PHARM**
45	1603268045	SOMESH KHORA	**IV /B.PHARM**
46	1603268046	SOUMYASHREE TRIPATHY	**IV /B.PHARM**
47	1603268047	SOURAV RANJAN MUND	**IV /B.PHARM**
48	1603268048	SUBHASISH DASH	**IV /B.PHARM**
49	1603268049	SUBHENDU KUMAR PANDA	**IV /B.PHARM**
50	1603268050	SUDARSHAN CHOUDHURY	**IV /B.PHARM**
51	1603268051	SUDEEP DHALI	**IV /B.PHARM**
52	1603268052	SUJIT KUMAR PANDA	**IV /B.PHARM**
53	1603268053	SUMIT DAS	**IV /B.PHARM**
54	1603268054	TRUPTIMAYEE NAYAK	**IV /B.PHARM**
55	1603268055	UTTAM CHOUDHURY	**IV /B.PHARM**
56	1603268056	SUSMITA PANDA	**IV /B.PHARM**
57	1603268057	SAGARIKA BEHERA	**IV /B.PHARM**
58	1603268058	ANKITA SAHU	**IV /B.PHARM**

Ref No.: **Date:**

59	1603268059	NEELAKANTHA TAKRI	**IV /B.PHARM**
60	1603268060	SOMYA RANJAN	**IV /B.PHARM**
61	1603268061	ANSUMAN BARIK	**IV /B.PHARM**
62	1603268062	SUBHASISH BISWAS	**IV /B.PHARM**
63	1623268001	KARTIKA MAHARANA	**IV /B.PHARM**
64	1623268002	PATTNURU NAGENDRA PRASAD	**IV /B.PHARM**
65	1623268003	RAJESH BEHERA	**IV /B.PHARM**
66	1623268004	SUBHENDU PRADHAN	**IV /B.PHARM**
67	1623268005	SUGONDHA RANI PATNAIK	**IV /B.PHARM**
68	1623268006	SUKANTI NAYAK	**IV /B.PHARM**
69	1623268007	SUNITA PANDA	**IV /B.PHARM**
70	1623268008	UTTAM SOREN	**IV /B.PHARM**
71	1703268001	ROSHAN KUMAR MALLICK	**IV /B.PHARM**
72	1703268002	HARSHA VISHWAKARMA	**III /B.PHARM**
73	1703268003	DINABANDHU SARKAR	**III /B.PHARM**
74	1703268004	AAKRAM ALLI	**III /B.PHARM**
75	1703268005	BIKRAM SINGH	**III /B.PHARM**
76	1703268006	SUNIL KUMAR PRADHAN	**III /B.PHARM**
77	1703268007	RAM KRISHNA PANGI	**III /B.PHARM**
78	1703268008	TRILOCHAN PRADHAN	**III /B.PHARM**
79	1703268009	PRIYADARSHINI MAHARATHA	**III /B.PHARM**
80	1703268010	SRITAM PATTNAIK	**III /B.PHARM**
81	1703268011	SUCHITRA MALI	**III /B.PHARM**
82	1703268012	AMIR MALI	**III /B.PHARM**
83	1703268013	SIDHARTH MALLICK	**III /B.PHARM**
84	1703268014	PAWAN KUMAR PANDA	**III /B.PHARM**
85	1703268015	ANANYA TRIPATHY	**III /B.PHARM**
86	1703268016	PARTHA MANDAL	**III /B.PHARM**
87	1703268017	LAXMIKANT RATH	**III /B.PHARM**
88	1703268018	NITESH AGRAWAL	**III /B.PHARM**
89	1703268019	ALIVA GIRI	**III /B.PHARM**
90	1703268020	PRABIN KUMAR SWAIN	**III /B.PHARM**

Ref No.: **Date:**

91	1703268021	ANISH KUMAR SINGH	**III /B.PHARM**
92	1703268022	SANTOSH KUMAR PARIDA	**III /B.PHARM**
93	1703268023	SUBHAMSHREE SIKUN MOHANTY	**III /B.PHARM**
94	1703268024	MONTU KHOSLA	**III /B.PHARM**
95	1703268025	JAGADISH RANA	**III /B.PHARM**
96	1703268026	SUBHENDU BAGCHI	**III /B.PHARM**
97	1703268027	NAREN BEHERA	**III /B.PHARM**
98	1703268028	DINESH KUMAR PADHI	**III /B.PHARM**
99	1703268029	RAHUL PAUL	**III /B.PHARM**
100	1703268030	SIBANI PALO	**III /B.PHARM**
101	1703268031	AMIT KUMAR NAYAK	**III /B.PHARM**
102	1703268032	HEMASARA PUJARI	**III /B.PHARM**
103	1703268033	SANATANA SAHU	**III /B.PHARM**
104	1703268034	TAPASWINI BARIK	**III /B.PHARM**
105	1703268035	AKSHAYA PRASAD RATH	**III /B.PHARM**
106	1703268036	ABHISHEK MOHAPATRA	**III /B.PHARM**
107	1703268037	BISWAJEET SAHU	**III /B.PHARM**
108	1703268038	NANDI SAHU	**III /B.PHARM**
109	1703268039	TANUJA MONDAL	**III /B.PHARM**
110	1703268040	SUNIL KUMAR JENA	**III /B.PHARM**
111	1703268041	ALISA PANIGRAHI	**III /B.PHARM**
112	1703268042	KHETRABASI SHABAR	**III /B.PHARM**
113	1703268043	CHUDAMANI SAHU	**III /B.PHARM**
114	1703268044	UMASANKAR BISOI	**III /B.PHARM**
115	1703268045	UTTAPAL DEBNATH	**III /B.PHARM**
116	1703268046	ABHISEK DOLAI	**III /B.PHARM**
117	1703268047	BHASKAR DISARI	**III /B.PHARM**
118	1703268048	ABHIJEET SRIKANT RAUT	**III /B.PHARM**
119	1703268049	ALOK TAPAN PRADHAN	**III /B.PHARM**
120	1703268050	BIKRAM BHADRA	**III /B.PHARM**
121	1703268051	MANAS RANJAN SAHU	**III /B.PHARM**
122	1703268052	ADITYA BHATT	**III /B.PHARM**
123	1703268053	PRAMOD KUMAR ASHA	**III /B.PHARM**
124	1703268054	DHIRAJ KUMAR MALLICK	**III /B.PHARM**

Ref No.: **Date:**

125	1703268055	SAROJ DANGRI	**III /B.PHARM**
126	1703268056	SANKAR PRASAD	**III /B.PHARM**
127	1703268057	CHANDRA SEKHAR SAHU	**III /B.PHARM**
128	1703268058	NARAYAN GUNTHA	**III /B.PHARM**
129	1703268059	PRATYUSH PANDA	**III /B.PHARM**
130	1703268060	SAMBHU PRADHAN	**III /B.PHARM**
131	1703268061	TEJASWINI MISHRA	**III /B.PHARM**
132	1703268062	DEEPAK JODDAR	**III /B.PHARM**
133	1703268063	PRIYANKA RANI SAHU	**III /B.PHARM**
134	1703268064	DAMU SISA	**III /B.PHARM**
135	1703268065	SIDHANT KUMAR PATRA	**III /B.PHARM**
136	1703268066	GANESH CHANDRA PADHY	**III /B.PHARM**
137	1703268067	SUDESH PRASAD PALLI	**III /B.PHARM**
138	1703268068	MANAMOHAN BADACHAT	**III /B.PHARM**
139	1703268069	ROHIT KUMAR AGRAWAL	**III /B.PHARM**
140	1703268070	DOLAGOBINDA MAJHI	**III /B.PHARM**
141	1703268071	DHIRAJ MISHRA	**III /B.PHARM**
142	1703268072	ABINASH BANUA	**III /B.PHARM**
143	1703268073	SUPRIYA GHARAMI	**III /B.PHARM**
144	1703268074	PRASHNAJIT HALDAR	**III /B.PHARM**
145	1703268075	MUKESH SARKAR	**III /B.PHARM**
146	1703268076	SNEHALATA DASH	**III /B.PHARM**
147	1803268001	ABINASH SINHA	**II /B.PHARM**
148	1803268002	ADITYA NARAYANA SAHU	**II /B.PHARM**
149	1803268003	AISHWARYA BHUMIJ	**II /B.PHARM**
150	1803268005	AKASH DASH	**II /B.PHARM**
151	1803268006	AKASH KUMAR BADATYA	**II /B.PHARM**
152	1803268007	AKASH KUMAR MOHANTY	**II /B.PHARM**
153	1803268008	ALIBHA SENAPATI	**II /B.PHARM**
154	1803268009	ALISHA MISHRA	**II /B.PHARM**
155	1803268010	ANISHA RATH	**II /B.PHARM**
156	1803268011	ANJALI THAKUR	**II /B.PHARM**
157	1803268012	ANJAN BEHERA	**II /B.PHARM**
158	1803268013	ANKITA PATI	**II /B.PHARM**

Ref No.: **Date:**

159	1803268014	ANKUSH PATEL	**II /B.PHARM**
160	1803268016	ASHUTOSH DAS	**II /B.PHARM**
161	1803268017	ASHUTOSH PANDA	**II /B.PHARM**
162	1803268018	ASISH RATH	**II /B.PHARM**
163	1803268019	BABULA HARIJAN	**II /B.PHARM**
164	1803268020	BASUDEV MINIAKA	**II /B.PHARM**
165	1803268021	BIKRAM BEHERA	**II /B.PHARM**
166	1803268022	BIPLAB SARKAR	**II /B.PHARM**
167	1803268023	BISHALRAJ DASH	**II /B.PHARM**
168	1803268024	BISWAJIT PATTNAIK	**II /B.PHARM**
169	1803268025	BISWANTAH BIRI	**II /B.PHARM**
170	1803268026	BITIKA MONDAL	**II /B.PHARM**
171	1803268027	CHINMOYI CHAKRAVARTY	**II /B.PHARM**
172	1803268028	DEBASISH PATTNAIK	**II /B.PHARM**
173	1803268029	DEBASISH SUMANTA	**II /B.PHARM**
174	1803268031	DHANANJAY MISTRY	**II /B.PHARM**
175	1803268032	G V DURGAMANI	**II /B.PHARM**
176	1803268033	GUPTESWAR SAHUKAR	**II /B.PHARM**
177	1803268034	HARABATI MAJHI	**II /B.PHARM**
178	1803268035	HARI JANI	**II /B.PHARM**
179	1803268037	JIMIMA BARLA	**II /B.PHARM**
180	1803268038	JYOTI PRADA SITHA	**II /B.PHARM**
181	1803268039	KHUSBOO DEBNATH	**II /B.PHARM**
182	1803268040	LIZA BEHERA	**II /B.PHARM**
183	1803268041	LUCKY LAMTA	**II /B.PHARM**
184	1803268042	MAHESWARI BAGH	**II /B.PHARM**
185	1803268043	MAHIMA SAHU	**II /B.PHARM**
186	1803268044	MANISH KUMAR PANDA	**II /B.PHARM**
187	1803268045	MANOTOSH PADHI	**II /B.PHARM**
188	1803268046	MANPREET SINGH NAG	**II /B.PHARM**
189	1803268048	MOHAMMAD ATAULLA KHAN	**II /B.PHARM**
190	1803268049	MOHIT SAIRAM PATHI	**II /B.PHARM**
191	1803268050	MONALISA NAYAK	**II /B.PHARM**

JEYPORE COLLEGE OF PHARMACY

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Approved by Government of Odisha, All India Council for Technical Education, New Delhi
Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: **Date:**

192	1803268052	NAMRATA PAUL	**II /B.PHARM**
193	1803268053	NIKHIL DASH	**II /B.PHARM**
194	1803268054	NILAKANTHA DAS	**II /B.PHARM**
195	1803268055	NITESH SHORI	**II /B.PHARM**
196	1803268056	OMPRAKASH MAJHI	**II /B.PHARM**
197	1803268057	PADMANABHA MALI	**II /B.PHARM**
198	1803268058	PANKAJ KUMAR SWAIN	**II /B.PHARM**
199	1803268059	PAPUN NAHAK	**II /B.PHARM**

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha
Ph: (06854) 291221, Fax: (06854) 246955
Visit us: www.pharmajeypoe.org, www.jcp.ac.in E-mail: jcpprincipal2001@gmail.com

COACHING FOR COMPETITIVE EXAMINATIONS 2018-2019

OFFICE OF THE PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Ref No: **Date:23.07.2018**

NOTICE

All the students of the B. Pharm Final year are hereby informed **"Coaching for GPAT Exams"** will be commenced from **28.07.2018 to 29.12.2018(Only Saturday)** as per the schedule. Hence all, students are instructed to attend classes without fail.

SL NO	SUBJECT	NAME OF THE FACULTY
01	PHARMACOLOGY	Mr. SUJIT KUMAR MARTHA
02	PHARMACEUTICS	Mrs. SUCHISMITA PANI
03	PHARMACOGNOSY	Dr. SANGRAM KESHARI PANDA
04	MICROBIOLOGY & BIOTECHNOLOGY	Mr. VIKRAM VISWAJIT MISHRA
05	PHARMACEUTICAL ANALYSIS	Miss. SINGDHARANI BEHERA
06	MEDICINAL CHEMISTRY	Dr. Ram Prasad Padhy

Note: Classes will be commenced from 2.00 pm to 4.00 pm

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JEYPORE COLLEGE OF PHARMACY
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JEYPORE COLLEGE OF PHARMACY, JEYPORE -764002

GPAT COACHING TIMETABLE 2018-2019, W.E.F: -28.07.2018

SL.NO	DATE	SUBJECT	SL.NO	DATE	SUBJECT
1	28.07.2018	Pharmaceutics	10	29.09.2018	Pharmacology
2	04.08.2018	Pharmacognosy	11	06.10.2018	Microbiology
3	11.08.2018	Pharmacology	12	13.10.2018	Biotechnology
4	18.08.2018	Microbiology	13	27.10.2018	Medicinal Chemistry
5	25.08.2018	Biotechnology	14	03.11.2018	Pharmaceutical Analysis
6	01.09.2018	Medicinal Chemistry	15	10.11.2018	Pharmaceutics
7	08.09.2018	Pharmaceutical Analysis	16	01.12.2018	Pharmacognosy
8	15.09.2018	Pharmaceutics	17	08.12.2018	Pharmacology
9	22.09.2018	Pharmacognosy	18	15.12.2018	Microbiology

PHARMACOLOGY: Mr. SUJIT KUMAR MARTHA

PHARMACEUTICS: Mrs. SUCHISMITA PANI

PHARMACOGNOSY: Dr. SANGRAM KESHARI PANDA

MICROBIOLOGY & BIOTECHNOLOGY: Mr. VIKRAM VISWAJIT MISHRA

PHARMACEUTICAL ANALYSIS: Miss. SINGDHARANI BEHERA

MEDICINAL CHEMISTRY: Dr. Ram Prasad Padhy

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Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

REPORT

NAME OF THE PROGRAM: Coaching for GPAT Exams.

DATE: 28.07.2018 to 29.12.2018

RESOURCE PERSON DETAILS:

1. **Mr. Sujit Kumar Martha**
   Associate Professor
   Dept. of Pharmacology
   Jeypore College of Pharmacy
   E-mail: sujit.martha@gmail.com
   Phone No: +91 9437389954
2. **Mrs. Suchismita Pani**
   Asst. Professor
   Dept. of Pharmaceutics
   Jeypore College of Pharmacy
   E-Mail: suchismitapani80@gmail.com
   Phone no: +91 9437409981
3. **Dr. Sangram Keshari Panda**
   Professor
   Dept. Pharmacognosy
   Jeypore College of Pharmacy
   E-Mail: sangrampanda2009@gmail.com
   Phone no: 9178141017
4. **Mr. Vikram Viswajit Mishra**
   Asst. Professor
   Dept. of Pharmaceutical technology
   Jeypore College of Pharmacy
   E-Mail: vikram2only@gmail.com
   Phone no: +91 9937663405

Ref No.: Date:

5. **Mrs. Singdharani Behera**
   Associate. Professor
   Dept. of Pharmaceutical Analysis
   Jeypore College of Pharmacy
   E-Mail: Sni_roldy@yahoo.com
   Phone no: 7382323937
6. **Dr. Ram Prasad Padhy**
   Associate. Professor
   Dept. of Pharmaceutical Chemistry
   Jeypore College of Pharmacy
   E-Mail: rampadhy@gmail.com
   Phone no:8895908528

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Ref No.: Date:

Jeypore College of Pharmacy organized coaching for GPAT exams on the date **28.07.2018 to 29.12.2018.** The course is specially designed for B. Pharm students who will appear for GPAT -2019 with the aim of coaching students regarding the examination process and preparation technique.

Outcomes:

To understand the concept of nationalized Graduated Pharmacy Aptitude test (GPAT)

Preparation for the examination and acquiring skills to qualify for the exam.

To compare the significance of the syllabus.

To explore opportunities with GPAT Qualification.

Act as study material for final year Degree preparation.

A number of objective types of questions supplement the theory.

Students expressed their happiness and conveyed the need to conduct more such programs. **Dr. Prasanna Kumar Kar, the Principal** acknowledges the resource persons for sharing valuable information with the students. About 153 nos. of students enrolled in this program

Fig:1. Mrs. Suchismita Pani, Dept of Pharmaceutics

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
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Ref No.: Date:

NAME OF THE PROGRAM: Coaching for Competitive Exams

DATE: 28.07.2018 to 29.12.2018 **ACADEMIC YEAR:2018-2019**

LIST OF STUDENTS ENROLLED

Sl.No.	Regd. No.	Name of the Students	Year/ Program
1	1503268001	A RUSHIKESH	IV/B.PHARM
2	1503268002	ABHINASA CHANDRA GURU	IV/B.PHARM
3	1503268003	ABINASH PATRA	IV/B.PHARM
4	1503268004	ADARSH KUMAR MUND	IV/B.PHARM
5	1503268005	ALOK MOHAPATRA	IV/B.PHARM
6	1503268006	ANIRUDHA MOHAPATRA	IV/B.PHARM
7	1503268007	ARJUN GUNTHA	IV/B.PHARM
8	1503268008	ASISH BARAI	IV/B.PHARM
9	1503268009	BIPIN KUMAR SANTA	IV/B.PHARM
10	1503268010	BIRENDRA PANGI	IV/B.PHARM
11	1503268011	CH SUDESH KUMAR	IV/B.PHARM
12	1503268012	CHANDAN NAYAK	IV/B.PHARM
13	1503268013	CHANDRA NAYAK	IV/B.PHARM
14	1503268014	DEBASIS CHOUDHURY	IV/B.PHARM
15	1503268015	DEBASIS TANDAN	IV/B.PHARM
16	1503268016	DINESH BACHHAR	IV/B.PHARM
17	1503268017	G HEMANTA SAI	IV/B.PHARM
18	1503268018	GOKUL KRUSHNA PANDA	IV/B.PHARM
19	1503268019	GOPAL MAJHI	IV/B.PHARM
20	1503268020	GOPALA DURGA	IV/B.PHARM
21	1503268021	GOURAB SARKAR	IV/B.PHARM
22	1503268022	GOURANGA CHARAN MAJHI	IV/B.PHARM
23	1503268023	K MUTYALU RAO	IV/B.PHARM
24	1503268024	K SHYAM SUNDAR RAO	IV/B.PHARM
25	1503268025	KABIRAJ BHATRA	IV/B.PHARM
26	1503268026	KABITA KUMARI NAYAK	IV/B.PHARM
27	1503268027	KISHOR KUMAR PRADHANI	IV/B.PHARM
28	1503268028	M PRASANT	IV/B.PHARM
29	1503268029	MANASA RANJAN DORA	IV/B.PHARM
30	1503268030	MANMOHAN PADAL	IV/B.PHARM
31	1503268031	MANOJ KUMAR PASAYAT	IV/B.PHARM
32	1503268032	MILAN KUMAR SAHU	IV/B.PHARM
33	1503268033	NARESH RELLI	IV/B.PHARM
34	1503268034	NIHAR RANJAN PATTNAIK	IV/B.PHARM
35	1503268035	P YASHASWEE	IV/B.PHARM

Ref No.: **Date:**

36	1503268036	PABITRA KUMAR ROUT	IV/B.PHARM
37	1503268037	PRABIN KUMAR JANI	IV/B.PHARM
38	1503268038	PRATAP MISTRY	IV/B.PHARM
39	1503268039	PRIYADARSANI KHURA	IV/B.PHARM
40	1503268040	RAJSHREE SWAIN	IV/B.PHARM
41	1503268041	SACHIN KUMAR SRIBASTAB	IV/B.PHARM
42	1503268042	SANAM SAHOO	IV/B.PHARM
43	1503268043	SANGHAMITRA EDDING	IV/B.PHARM
44	1503268044	SAROJ ROY	IV/B.PHARM
45	1503268045	SATYABRATA PATEL	IV/B.PHARM
46	1503268046	SATYAJIT SWAIN	IV/B.PHARM
47	1503268047	SHYAMA SUNDAR SAHU	IV/B.PHARM
48	1503268048	SIBA PODDAR	IV/B.PHARM
49	1503268049	SIBAPRASAD NAYAK	IV/B.PHARM
50	1503268050	SIBASIS PADHI	IV/B.PHARM
51	1503268051	SIDHARTHA SANKAR PADHY	IV/B.PHARM
52	1503268052	SMRUTI SWARUP PRADHAN	IV/B.PHARM
53	1503268053	SOURAV BAIRAGI	IV/B.PHARM
54	1503268054	SRIMANT KUMAR MOHAPATRA	IV/B.PHARM
55	1503268055	SUJIT SAHA	IV/B.PHARM
56	1503268056	SUSHANKAR MANDAL	IV/B.PHARM
57	1503268057	TWINKLE PANIGRAHI	IV/B.PHARM
58	1503268058	UMAKANTA GOUDA	IV/B.PHARM
59	1503268059	SHYAMA KINKAR ACHARJYA	IV/B.PHARM
60	1503268060	SRIDHAR REDDY	IV/B.PHARM
61	1503268061	TARIF MOHANTY	IV/B.PHARM
62	1523268001	AARTI PAL	IV/B.PHARM
63	1523268002	AJIT KUMAR NAYAK	IV/B.PHARM
64	1523268003	ATISH BALARAM CHANDRA DAS	IV/B.PHARM
65	1523268004	RINKU BISWAS	IV/B.PHARM
66	1523268005	SATISHA BALARAM DAS	IV/B.PHARM
67	1603268001	BASANTI KUMARI HARIJAN	III/B.PHARM
68	1603268002	KUMARI PRIYAMBADA	III/B.PHARM
69	1603268003	NARAYANASETTY HARISH KUMAR	III/B.PHARM
70	1603268004	SUBHAM SAHU	III/B.PHARM
71	1603268005	ABHILASH DASH	III/B.PHARM
72	1603268006	ANWESA DEY	III/B.PHARM
73	1603268007	ASUTOSH SAMAL	III/B.PHARM
74	1603268008	ATALABIHARI SAHU	III/B.PHARM
75	1603268009	BHABANI HARIJAN	III/B.PHARM

Ref No.: **Date:**

76	1603268010	BIKASH KUMAR NAYAK	III/B.PHARM
77	1603268011	BISHNU CHARAN DALAI	III/B.PHARM
78	1603268012	BISWA RANJAN BISWAL	III/B.PHARM
79	1603268013	BISWAJEET RAY	III/B.PHARM
80	1603268014	DEBASISH TRIPATHY	III/B.PHARM
81	1603268015	DEEPA MAJHI	III/B.PHARM
82	1603268016	DIBYA RANJAN GOUDA	III/B.PHARM
83	1603268017	DIPSHIKHA HOWLADAR	III/B.PHARM
84	1603268018	GANESH CHANDRA DAKUA	III/B.PHARM
85	1603268019	HRUSHIKESH NAIK	III/B.PHARM
86	1603268020	JAGADISH JENA	III/B.PHARM
87	1603268021	JARABIN KUMAR DUKHI	III/B.PHARM
88	1603268022	KIRANMAYEE BHATRA	III/B.PHARM
89	1603268023	MAHESWAR GUGA	III/B.PHARM
90	1603268024	MANAS RANJAN PATNAIK	III/B.PHARM
91	1603268025	MANASH RANJAN NAYAK	III/B.PHARM
92	1603268026	MANISHANTA HIRA	III/B.PHARM
93	1603268027	PAPUN KUMAR BAGH	III/B.PHARM
94	1603268028	PRATYUSH KUMAR BRAHMA	III/B.PHARM
95	1603268029	PRAYAS ROHAN PATRO	III/B.PHARM
96	1603268030	PREETI GUPTA	III/B.PHARM
97	1603268031	PREM RANJAN MADALA	III/B.PHARM
98	1603268032	PRIYANKA MISHRA	III/B.PHARM
99	1603268033	RAHUL BISWAS	III/B.PHARM
100	1603268034	RAHUL SINGH TOMAR	III/B.PHARM
101	1603268035	RAJIB NAYAK	III/B.PHARM
102	1603268036	RAMESWAR RATH	III/B.PHARM
103	1603268037	RANJEET KUMAR HARIJAN	III/B.PHARM
104	1603268038	RUDRA NARAYAN MOHANTY	III/B.PHARM
105	1603268039	SAMEER KUMAR BISOI	III/B.PHARM
106	1603268040	SARITA HARIJAN	III/B.PHARM
107	1603268041	SHARMILA DAS	III/B.PHARM
108	1603268042	SHIBA PRASAD SWAIN	III/B.PHARM
109	1603268043	SIDDHESWAR PATRA	III/B.PHARM
110	1603268044	SISIR KUMAR NAYAK	III/B.PHARM
111	1603268045	SOMESH KHORA	III/B.PHARM
112	1603268046	SOUMYASHREE TRIPATHY	III/B.PHARM
113	1603268047	SOURAV RANJAN MUND	III/B.PHARM
114	1603268048	SUBHASISH DASH	III/B.PHARM
115	1603268049	SUBHENDU KUMAR PANDA	III/B.PHARM
116	1603268050	SUDARSHAN CHOUDHURY	III/B.PHARM

Ref No.: **Date:**

117	1603268051	SUDEEP DHALI	III/B.PHARM
118	1603268052	SUJIT KUMAR PANDA	III/B.PHARM
119	1603268053	SUMIT DAS	III/B.PHARM
120	1603268054	TRUPTIMAYEE NAYAK	III/B.PHARM
121	1603268055	UTTAM CHOUDHURY	III/B.PHARM
122	1603268056	SUSMITA PANDA	III/B.PHARM
123	1603268057	SAGARIKA BEHERA	III/B.PHARM
124	1603268058	ANKITA SAHU	III/B.PHARM
125	1603268059	NEELAKANTHA TAKRI	III/B.PHARM
126	1603268060	SOMYA RANJAN MOHAPATRA	III/B.PHARM
127	1603268061	ANSUMAN BARIK	III/B.PHARM
128	1603268062	SUBHASISH BISWAS	III/B.PHARM
129	1623268001	KARTIKA MAHARANA	III/B.PHARM
130	1623268002	PATTNURU NAGENDRA PRASAD	III/B.PHARM
131	1623268003	RAJESH BEHERA	III/B.PHARM
132	1623268004	SUBHENDU PRADHAN	III/B.PHARM
133	1623268005	SUGONDHA RANI PATNAIK	III/B.PHARM
134	1623268006	SUKANTI NAYAK	III/B.PHARM
135	1623268007	SUNITA PANDA	III/B.PHARM
136	1623268008	UTTAM SOREN	III/B.PHARM
137	1703268008	TRILOCHAN PRADHAN	II/B.PHARM
138	1703268009	PRIYADARSHINI MAHARATHA	II/B.PHARM
139	1703268010	SRITAM PATTNAIK	II/B.PHARM
140	1703268011	SUCHITRA MALI	II/B.PHARM
141	1703268012	AMIR MALI	II/B.PHARM
142	1703268013	SIDHARTH MALLICK	II/B.PHARM
143	1703268014	PAWAN KUMAR PANDA	II/B.PHARM
144	1703268015	ANANYA TRIPATHY	II/B.PHARM
145	1703268016	PARTHA MANDAL	II/B.PHARM
146	1703268017	LAXMIKANT RATH	II/B.PHARM
147	1703268018	NITESH AGRAWAL	II/B.PHARM
148	1703268019	ALIVA GIRI	II/B.PHARM
149	1703268020	PRABIN KUMAR SWAIN	II/B.PHARM
150	1703268021	ANISH KUMAR SINGH	II/B.PHARM
151	1703268022	SANTOSH KUMAR PARIDA	II/B.PHARM
152	1703268023	SUBHAMSHREE SIKUN MOHANTY	II/B.PHARM
153	1703268024	MONTU KHOSLA	II/B.PHARM

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

COACHING FOR COMPETITIVE EXAMINATIONS 2017-2018

OFFICE OF THE PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Ref No: **Date:08.09.2017**

NOTICE

All the students of the B. Pharm Final year are hereby informed **"Coaching for Competitive Exams"** will be commenced from **14.09.2017 to 13.01.2018(Only Saturday)** as per the schedule. Hence all, students are instructed to attend classes without fail.

SL NO	SUBJECT	NAME OF THE FACULTY
01	PHARMACOLOGY	Dr. PRASANNA KUMAR KAR
02	PHARMACEUTICS	Mr. VIKRAM VISWAJIT MISHRA
03	PHARMACOGNOSY	Dr. SANGRAM KESHARI PANDA
04	MICROBIOLOGY & BIOTECHNOLOGY	Mrs. SUCHISMITA PANI
05	PHARMACEUTICAL ANALYSIS	Miss. SINGDHARANI BEHERA
06	MEDICINAL CHEMISTRY	Dr. RAM PRASAD PADHY

Note: Classes will be commenced from 2.00 pm to 4.00 pm

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JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

JEYPORE COLLEGE OF PHARMACY, JEYPORE -764002

GPAT COACHING TIMETABLE 2018-2019, W.E.F: -14.09.2017

SL.NO	DATE	SUBJECT
1	16.09.2017	Pharmaceutics
2	13.09.2017	Pharmacognosy
3	14.10.2017	Pharmacology
4	21.10.2017	Microbiology
5	28.10.2017	Biotechnology
6	11.11.2017	Medicinal Chemistry
7	18.11.2017	Pharmaceutical Analysis
8	25.11.2017	Pharmaceutics
9	09.12.2017	Pharmacognosy
10	16.12.2017	Pharmacology
11	23.12.2017	Microbiology
12	30.12.2017	Biotechnology
13	06.01.2018	Medicinal Chemistry
14	13.01.2018	Pharmaceutical Analysis

PHARMACOLOGY: Dr. PRASANNA KUMAR KAR

PHARMACEUTICS: Mr. VIKRAM VISWAJIT MISHRA

PHARMACOGNOSY: Dr. SANGRAM KESHARI PANDA

MICROBIOLOGY & BIOTECHNOLOGY: Mrs. SUCHISMITA PANI

PHARMACEUTICAL ANALYSIS: Miss. SINGDHARANI BEHERA

MEDICINAL CHEMISTRY: Dr. RAM PRASAD PADHY

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JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)
Approved by Government of Odisha, All India Council for Technical Education, New Delhi
Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

REPORT

NAME OF THE PROGRAM: Coaching for Competitive Exams.

DATE: 14.09.2017 to 13.01.2018

RESOURCE PERSON DETAILS:

1) **Dr. Prasanna Kumar Kar**
   Professor-Cum-Principal
   Dept. of Pharmacology
   Jeypore College of Pharmacy
   E-Mail:zdibds@gmail.com
   Phone no: 8658259359
2) **Mrs. Suchismita Pani**
   Asst. Professor
   Dept. of Pharmaceutics
   Jeypore College of Pharmacy
   E-Mail: suchismitapani80@gmail.com
   Phone no: +91 9437409981
3) **Dr. Sangram Keshari Panda**
   Professor
   Dept. Pharmacognosy
   Jeypore College of Pharmacy
   E-Mail: sangrampanda2009@gmail.com
   Phone no: 9178141017
4) **Mr. Vikram Viswajit Mishra**
   Asst. Professor
   Dept. of Pharmaceutical technology
   Jeypore College of Pharmacy
   E-Mail: vikram2only@gmail.com
   Phone no: +91 9937663405

Ref No.: Date:

5) **Mrs. Singdharani Behera**
Associate. Professor
Dept. of Pharmaceutical Analysis
Jeypore College of Pharmacy
E-Mail: Sni_roldy@yahoo.com
Phone no: 7382323937

6) **Dr. Ram Prasad Padhy**
Associate. Professor
Dept. of Pharmaceutical Chemistry
Jeypore College of Pharmacy
E-Mail: rampadhy@gmail.com
Phone no:8895908528

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Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

Jeypore College of Pharmacy organized coaching for GPAT exams on the date **14.09.2017 to 13.01.2018.** The course is specially designed for B. Pharm students who will appear for GPAT -2018 with the aim of coaching students regarding the examination process and preparation technique.

Outcomes:

To understand the concept of nationalized Graduated Pharmacy Aptitude test (GPAT)

Preparation for the examination and acquiring skills to qualify for the exam.

To compare the significance of the syllabus.

To explore opportunities with GPAT Qualification.

Act as study material for final year Degree preparation.

A number of objective types of questions supplement the theory.

Students expressed their happiness and conveyed the need to conduct more such programs. **Dr. Prasanna Kumar Kar, the Principal** acknowledges the resource persons for sharing valuable information with the students. About 165 nos. of students enrolled in this program

Fig:1. Dr. Sangram Keshari Panda, Dept. of Pharmacognosy

PRINCIPAL
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RONDAPALLI, JEYPORE (K) 764002

Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha
Ph: (06854) 291221, Fax: (06854) 246955
Visit us: www.pharmajeypoe.org, www.jcp.ac.in E-mail: jcpprincipal2001@gmail.com

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Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

Ref No.: Date:

NAME OF THE PROGRAM: Coaching for Competitive Exams

DATE: 14.09.2017 to 13.01.2018 **ACADEMIC YEAR:2017-2018**

LIST OF STUDENTS ENROLLED

SL.NO	Regd. No.	Name of the Students	Year/ Program
1	1403268001	ANIKET PADHI	IV/B.PHARM
2	1403268002	ARAJITA KUMAR DUKHI	IV/B.PHARM
3	1403268003	ARATA NAIK	IV/B.PHARM
4	1403268004	B GOVINDA RAO	IV/B.PHARM
5	1403268005	B BHAGABANA PATRA	IV/B.PHARM
6	1403268006	BIJAYA LAXMI KAND	IV/B.PHARM
7	1403268007	BINA SAHA	IV/B.PHARM
8	1403268008	CHANCHALA CHAPADI	IV/B.PHARM
9	1403268009	CHANDAN MONDAL	IV/B.PHARM
10	1403268010	FALESH KUMAR ACHARYA	IV/B.PHARM
11	1403268011	GITISMITA DAS	IV/B.PHARM
12	1403268012	GUDU BISOI	IV/B.PHARM
13	1403268013	M GYANARANJAN	IV/B.PHARM
14	1403268014	HARI SHANKAR HALBA	IV/B.PHARM
15	1403268015	HEMANGINI NAIK	IV/B.PHARM
16	1403268016	I GAUTAMI	IV/B.PHARM
17	1403268017	JAGABANDHU BHARATIA	IV/B.PHARM
18	1403268018	JAGANNATH KHILLA	IV/B.PHARM
19	1403268019	K Aditya Prasanna	IV/B.PHARM
20	1403268020	KAMALESH MISTRY	IV/B.PHARM
21	1403268021	KESHAB BIHARI	IV/B.PHARM
22	1403268022	KHIRASINDHU ROUT	IV/B.PHARM
23	1403268023	LILIMA DISARI	IV/B.PHARM
24	1403268024	MUKTESWAR MAJHI	IV/B.PHARM
25	1403268025	NAKHETRA BHUSAN NAYAK	IV/B.PHARM
26	1403268026	NANDINI MAJHI	IV/B.PHARM
27	1403268027	NARAYAN MAHORIA	IV/B.PHARM
28	1403268028	NIRANJAN DALAPATI	IV/B.PHARM
29	1403268029	PRIYADARSI NAYAK	IV/B.PHARM
30	1403268030	PURNIMA BIHARI	IV/B.PHARM
31	1403268031	PUSPANJALI SAHU	IV/B.PHARM
32	1403268032	RAJESH KUMAR SATAPATHY	IV/B.PHARM
33	1403268033	ROHIT MANDAL	IV/B.PHARM
34	1403268034	RUPALI BISWAS	IV/B.PHARM

Ref No.: **Date:**

35	1403268035	SAGARIKA TRIPATHY	IV/B.PHARM
36	1403268036	SAKUNTALA KIRSANI	IV/B.PHARM
37	1403268037	SAMUKA BIDIKA	IV/B.PHARM
38	1403268038	SANDIGDHA CHOUDHURY	IV/B.PHARM
39	1403268039	SANKAR GOUDA	IV/B.PHARM
40	1403268040	SANKARJIT PANDA	IV/B.PHARM
41	1403268041	SANTANU NAYAK	IV/B.PHARM
42	1403268042	SIDDHARTH BISWAL	IV/B.PHARM
43	1403268043	SIDDHARTHASHANKAR DAS MOHAPATRA	IV/B.PHARM
44	1403268044	SIDHARTH SANKAR PATNAIK	IV/B.PHARM
45	1403268045	SORAJ KUMAR DASH	IV/B.PHARM
46	1403268046	SOUBHAGYA RANJAN SAHOO	IV/B.PHARM
47	1403268047	SOUMYA RANJAN BARIK	IV/B.PHARM
48	1403268048	SUBHASMITA THAKUR	IV/B.PHARM
49	1403268049	SUDHANSU GARADA	IV/B.PHARM
50	1403268050	SUDHANSU KUMAR DAS	IV/B.PHARM
51	1403268051	SUJATA NAYAK	IV/B.PHARM
52	1403268052	SUKANTA GHARAMI	IV/B.PHARM
53	1403268053	SUKANYA MOHANTY	IV/B.PHARM
54	1403268054	SUMIT KUMAR SAHU	IV/B.PHARM
55	1403268055	SUMIT SEKHAR PANIGRAHI	IV/B.PHARM
56	1403268056	SURAJEET MONDAL	IV/B.PHARM
57	1403268057	SWAROOP KUMAR PANDA	IV/B.PHARM
58	1403268058	SWETA MOHAPATRO	IV/B.PHARM
59	1403268059	TUSAR RANJAN PATI	IV/B.PHARM
60	1403268060	ASWINI KUMAR GOND	IV/B.PHARM
61	1403268061	KAMINI BAG	IV/B.PHARM
62	1403268062	MANOJ KUMAR SAHU	IV/B.PHARM
63	1403268063	MANTOSH DAS	IV/B.PHARM
64	1503268001	A RUSHIKESH	III/B.PHARM
65	1503268002	ABHINASA CHANDRA GURU	III/B.PHARM
66	1503268003	ABINASH PATRA	III/B.PHARM
67	1503268004	ADARSH KUMAR MUND	III/B.PHARM
68	1503268005	ALOK MOHAPATRA	III/B.PHARM
69	1503268006	ANIRUDHA MOHAPATRA	III/B.PHARM
70	1503268007	ARJUN GUNTHA	III/B.PHARM
71	1503268008	ASISH BARAI	III/B.PHARM
72	1503268009	BIPIN KUMAR SANTA	III/B.PHARM
73	1503268010	BIRENDRA PANGI	III/B.PHARM
74	1503268011	CH SUDESH KUMAR	III/B.PHARM

Ref No.: **Date:**

75	1503268012	CHANDAN NAYAK	III/B.PHARM
76	1503268013	CHANDRA NAYAK	III/B.PHARM
77	1503268014	DEBASIS CHOUDHURY	III/B.PHARM
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84	1503268021	GOURAB SARKAR	III/B.PHARM
85	1503268022	GOURANGA CHARAN MAJHI	III/B.PHARM
86	1503268023	K MUTYALU RAO	III/B.PHARM
87	1503268024	K SHYAM SUNDAR RAO	III/B.PHARM
88	1503268025	KABIRAJ BHATRA	III/B.PHARM
89	1503268026	KABITA KUMARI NAYAK	III/B.PHARM
90	1503268027	KISHOR KUMAR PRADHANI	III/B.PHARM
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93	1503268030	MANMOHAN PADAL	III/B.PHARM
94	1503268031	MANOJ KUMAR PASAYAT	III/B.PHARM
95	1503268032	MILAN KUMAR SAHU	III/B.PHARM
96	1503268033	NARESH RELLI	III/B.PHARM
97	1503268034	NIHAR RANJAN PATTNAIK	III/B.PHARM
98	1503268035	P YASHASWEE	III/B.PHARM
99	1503268036	PABITRA KUMAR ROUT	III/B.PHARM
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129	1523268005	SATISHA BALARAM DAS	III/B.PHARM
130	1703268001	ROSHAN KUMAR MALLICK	1 / B.PHARM
131	1703268002	HARSHA VISHWAKARMA	1 / B.PHARM
132	1703268003	DINABANDHU SARKAR	1 / B.PHARM
133	1703268004	AAKRAM ALLI	1 / B.PHARM
134	1703268005	BIKRAM SINGH	1 / B.PHARM
135	1703268006	SUNIL KUMAR PRADHAN	1 / B.PHARM
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138	1703268009	PRIYADARSHINI MAHARATHA	1 / B.PHARM
139	1703268010	SRITAM PATTNAIK	1 / B.PHARM
140	1703268011	SUCHITRA MALI	1 / B.PHARM
141	1703268012	AMIR MALI	1 / B.PHARM
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151	1703268022	SANTOSH KUMAR PARIDA	1 / B.PHARM
152	1703268023	SUBHAMSHREE SIKUN MOHANTY	1 / B.PHARM
153	1703268024	MONTU KHOSLA	1 / B.PHARM
154	1703268025	JAGADISH RANA	1 / B.PHARM
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162	1703268033	SANATANA SAHU	1 / B.PHARM
163	1703268034	TAPASWINI BARIK	1 / B.PHARM
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GPAT QUESTIONS

1. Which of the following respective Phase-I and Phase-Il reactions are the most common drug biotransformation reactions?

   (a) Oxidation and Glucuronidation
   (b) Reduction and Acetylation
   (c) Hydrolysis and Glucuronidation
   (d) Oxidation and Glutathion conjugation

2. Which one of the following drugs has positive inotropic and negative chronotropic action

   (a) Dopamine (b) Epinephrine (c) Digoxin (d) Isoprenaline

3. Which one of the following therapeutic classes has been proved clinically as a first line therapy for heart failure and has shown decreased hospitalization, improved symptoms and delayed disease progression?

   (a) Cardiac glycosides
   (b) ACE Inhibitors (ACEIs)
   (c) Renin Antagonists
   (d) Nitrites

4. Which one of the following glucose transporters is the new drug target for the management of Type-2 diabetes mellitus?

   (a) Sodium glucose linked transporter-2 (SGLT2)
   (b) Glucose transporter-1 (GLUTI).
   (c) Sodium glucose linked transporter-1 (SGLTI)
   (d) Glucose transporter-2 (GLUT2)

5. Which one of the following modes of HIV transmission carries highest relative risk of infection with single exposure?

   (a) Transfusion of blood and blood products
   (b) Perinatal - from mother to child
   (c) Sexual contacts with infected partners
   (d) Syringe sharing with drug addicts

6. Which of the followings are the critical neurotransmitters playing major role in depression?

   (a) Acetyicholine, Norepinephrine and Dopamine
   (b) Dopamine, Norepinephrine and Serotonin
   (c) Serotonin, Dopamine and y-amino butyric acid
   (d) Acetylcholine, Serotonin and y-amino butyric acid

7. A 55 years old man is under DOTS treatment for pulmonary tuberculosis for the last four months. Now, he has developed symptoms of peripheral neuritis. Which one of the followings Is the right addition to his therapy to manage peripheral neuritis?

(a) Cyanocobalamin (b) α -Lipoic acid (c) Pyridoxine (d) Prednisolone

8. What is the primary mechanism of action of local anesthetics

(a) Activation of ligand-gated potassium channels
(b) Blockade of voltage-gated sodium channels
(c) Stimulation of voltage-gated N-type calcium channels
(d) Blockade of GABA-gated chloride channels

9. Which one of the following anti-asthmatic drugs can cause convulsions and arrhythmia

(a) Prednisolone (b) Salmeterol (c) Zafirlukast (d)Theophylline

10. Which one of the following anti-arrhythmic drugs acts by inhibiting potassium, sodium and calcium channels

(a) Quinidine (b) Lignocaine (c) Amiodarone (d) Flecainide

11. A 48 years old woman is having the symptoms of weight gain, cold intolerance, constipation, bradycardia, puffy face, lethargy and dry skin. These symptoms are suggestive of which of the followings?

(a) Over use of corticosteroid (b) Hypothyroidism
(c) Estrogen deficiency (d) Over use of thyroxin sodium

12. Increased risk of hypoglycemia and weight gain is the common side effect of drugs used in the management of Type-2 diabetes mellitus. Followings are some commonly used drugs, aloneor in combination, for the management of Type-2 diabetes mellitus:

[P] : Metformin [Q]: Pioglitazone [R]: Glipizide [S] : Sitagliptin

Choose the correct combination which is weight neutral and without risk of hypoglycemia.

(a) P and Q (b) Q and R (c) R and S (d)P and S

13. Which one of the following receptors is NOT a ligand-gated ion channel receptor

(a) Nicotinic Receptor (b) $5HT_3$- Receptor (c) $GABA_A$ – Receptor (d)H_2 -Receptor

14. Which one of the following classes of drugs causes side effects like dryness of mouth, tachycardia, urinary retention, constipation, blurring of vision, precipitation of glaucoma, drowsiness and impairment of cognition?

(a) Anti-adrenergic (b) Anti-cholinergic (c) Anti-serotonergic (d) Anti-dopaminergic

15. Which of the following cytokines are the most important regulators in inflammation and are the targets for anti-inflammatory agents used In rheumatoid arthritis

(a) Tumor necrosis factor-and interleukin-1.
(b) Acetylcholine esterase and Eicosanoids
(c) Leukotrienes and Isoprostanes
(d) Adhesion factor and Monoamine oxidase A

16. Which one of the followings is a FALSE statement for competitive antagonists
    (a) They have an affinity for the agonist binding site on receptor
    (b) They have no intrinsic activity
    (c) They cause parallel rightward shift of the control dose response curve
    (d) Maximum response of the agonist cannot be achieved in their presence by increasing the concentration of the agonist.

17. Atypical antipsychotics differ from the typical antipsychotics in various ways that definethem as atypical. Which one of the followings is NOT a defining property of the atypical antipsychotics
    (a) Sustained hyperprolactinemia
    (b) Improved efficacy in treating the negative symptoms
    (c) Lower risk for extrapyramidal side effects (EPSs)
    (d) Greater serotonin receptor blockade than dopamine blockade

18. Which one of the following drugs produces significant relaxation of both venules and arterioles
    (a) Hydralazine (b) Minoxidil (c) Diazoxide (d) Sodium nitroprusside

19. Antiviral action of purine analogues is primarily related to the followings:
    [P] : Inhibition of RNA synthesis [Q] : Inhibition of DNA polymerase
    [R] : Immuno modulation [S] : Inhibition of viral penetration
    Choose the correct option:
    (a) R is correct and Q is incorrect (b) Q is correct and S is incorrect
    (c) P is correct and R is incorrect (d) S is correct and P is incorrect

20. All of the given four drugs are sympathomimetics:
    [P] : Adrenaline [Q]: Isoprenaline [R] : Phenylephrine [S] : Noradrenaline
    Choose the correct statement related to their effects on blood pressure.
    (a) P and Q increase systolic and diastolic blood pressure
    (b) Q and R increase systolic and diastolic blood pressure
    (c) R and S increase systolic blood pressure
    (d) P and S increase systolic and diastolic blood pressure

21. All of the given four drugs are neuromuscular blocking agents.
    [P] : Gallamine [Q]: Succinylcholine [R] : Vecuronium [S] : d-Tubocurarine
    Choose the correct statement about them.
    (a) P and Q are competitive neuromuscular blocking agents
    (b) Q and R are competitive neuromuscular blocking agents
    (c) R and S are non-competitive neuromuscular blocking agents
    (d) P and S are competitive neuromuscular blocking agents

22. Which one of the followings is a tyrosine kinase inhibitor indicated for a variety of malignancies

(a) Imatinib (b) Paclitaxel

(c) Ezetimibe (d) Mitomycin

23. Which one of the followings is the most likely positive sign of pregnancy when detected In urine

(a) Estrogens

(b) Progesterone

(c) Human Chorionic Gonadotropin (HCG)

(d) Corticotropic Hormone

24. Followings are some opioid analgesics:

[P] : Morphine [Q]: Pethidine [R]: Pentazocine [S] : Fentanyl

Choose the correct order of respiratory depressant propensity of these agents.

(a) P>Q>R>S (b) Q>P>R>S

(c) R>P>Q>S (d) S>P>Q>R

25. Corticosteroids are administered to treat some of the given disease states:

[P] : Peptic ulcer [Q] : Bronchial asthma

[R] : Nephrotic syndrome [S] : Myasthenia gravis

Choose the correct statement about the use of corticosteroids for the treatment of these diseases.

(a) P, Q and S are treated while R is NOT

(b) P. R and S are treated while Q is NOT

(c) Q, R and S are treated while P is NOT

(d) P, Q and R are treated while S is NOT

26. Which one of the following statements is FALSE for fluoroquinolones

(a) These are highly effective by oral and parenteral routes

(b) These are relatively more susceptible to development of resistance

(c) These are effective against those bacteria that are resistant to β-lactam and aminoglycoside antibiotics

(d) These are bactericidal with broad spectrum of activity

27. Increased serum levels of which one of the followings may be associated with decreased risk of atherosclerosis

(a) VLDL (b) LDL (c) HDL (d) Total Cholesterol

28. Metformin causes the following actions EXCEPT for the one. Identify that.

(a) Reduces hepatic neoglucogenesis

(b) Increases glucose uptake in skeletal muscles

(c) Enhances sensitivity to insulin

(d) Increases HbAIc by 1% to 2%

29. Misoprostol has a cytoprotective action on gastrointestinal mucosa because of one of the following actions. Identify that

(a) It enhances secretion of mucus and bicarbonate ion

(b) It neutralizes hydrochloric acid in stomach

(c) It antagonizes nonsteroidal anti-inflammatory drugs

(d) It is bactericidal to *H. pylori*

30. Which of the following drugs can precipitate bronchial asthma?

[P] : Indomethacin [Q] : Codeine phosphate

[R] : Rabeprazole [S] : Theophylline

Choose the correct option.

(a) P and R (b) P and Q (c) R and S (d) S and Q

31. Which one of the following alkaloids is derived from Lysine?

(a) Emetine (b) Chelidonine (c) Lobeline (d) Stachydrine

32. Histologically the barks of Cinnamomum cassia and Cinnamomum zeylanicum differ in one of the following features. Identify that.

(a) Sclerieds (b) Phloem Fibers (c) Pericyclic Fibres (d) Cortex

33. The following characteristic properties are given in context of saponins:

[P] : Saponins give precipitate by shaking with water.

[Q] : Saponins are diterpenes and give foam on shaking with water.

[R] : Saponins are triterpenoidal compounds and cause haemolysis of erythrocytes.

[S] : They are steroidal or triterpenoidal compounds with tendency to reduce surface tension of water.

Choose the correct option.

(a) P is true; Q is true; R is true; S is true (b) P is false; Q is true; R is false; S is true

(c) P is false; Q is true; R is true; S is true (d) P is false; Q is false; R is true; S is true

34. Read the given statements about the constituents of Shellac:

[P] : Shellolic acid, a major component of alicyclic fraction is responsible for colour.

[Q]: Shellolic acid, a major component of aromatic fraction is responsible for colour.

[R] : Shellolic acid is a major component of aliphatic fraction and laccaic acid is ancomponent of aromatic fraction.

[S] : Aliphatic components are shellolic acid which is alicydic and aleuratic acid which is acyclic, while laccaic acid is an aromatic colouring principle.

What is the correct combination of options?

(a) P is true; Q is true; R is true; S is true (b) P is false; Q is false; R is false; S is true

(c) P is false; Q is false; R is true; S is true (d) P is true; Q is false; R is false; S is true

35. Major component of *Cymbopogon citratus*citrates is citral which is utilized commercially for the synthesis of vitamin A from the following:

[P] Directly from citral [Q] By first converting to Ψ-ionone

[R] By first converting to Ψ-ionone followed by conversion to a-ionone which is very important intermediate for carotenoid synthesis

[S] By first conversion of citral to T-ionone followed by conversion to Ψ-ionone which is an important intermediate for carotenoid synthesis

(a) P is true; Q is true; R is true; S is true (b) P is false; Q is true; R is false; S is true

(c) P is false; Q is false; R is true; S is true (d) P is false; Q is false; R is false; S is false

36. Which one of the following constituents Is reported to have anti-hepatotoxic activity

(a) Podophyllotoxin (b) Andrographoloid (c) Linalool (d) Safranal

37. Geranial and Neral are the monoterpene aldehyde constituents of volatile oil. Read the following statements about them:

[P] : Geranial and Neral are both optical Isomers

[O] : Geranial and Neral are both geometric isomers

[R] : Geranial has Z configuration and Neral has E configuration

[S] : Geranial has E configuration aqd Neral has Z configuration

(a) Choose the correct combination of answers for them.

(b) P is false; Q is true; R is true; S is false

(c) P is true; Q is false; R Is true; S is true

(d) P is false; Q is true; R is false; S is false

38. Identify the incorrect statement applicable to lignans.

(a) Lignans are formed by the dimerization of the phenylpropane moiety

(b) Podophyllotoxin can be termed phytochemically as a lignan

(c) Lignans can be formed by cyclization of phenylpropane nucleus

(d) Lignans are the secondary metabolites formed from the Shikimic acid pathway

39. Naringin, obtained from orange peel, can be named as one of the followings. Identify the correct name.

(a) 5,4'-Dihydroxy-7-rhamnoglucoside of flavanone (b) 5,4'-Dihydroxy-7-glucoside of flavanone

(c) 5,3',4'-Trihydroxy-7-rhamnoglucoside of flavone (d) 5,3',4'-Trihydroxy-7-glucoside of flavones

40. Rhizomes of Zingiberofficinale contain some sesquiterpene hydrocarbons. Some hydrocarbons are given below:

[P] : β -Bisabolene [Q]: Gingerone A [R] : Gingerol [S]: Zingiberene

Identify the correct pair of constituents present in the rhizomes.

(a) P and S (b) P and Q (c) Q and S (d) Q and R

41. Listed below are the chemical tests used to identify some groups of phytoconstituents. Identify the test for the detection of the purine alkaloids.

(a) Keller-Killani Test (b) Murexide Test (c) Shinoda Test (d) Vitali-Morin Test

42. Given below are four statements in context of Hecogenin:

[P] : It is a saponin

[Q]: It is useful for the semi-synthesis of steroidal drugs

[R] : It is not a glycoalkaloid

[S] : It is obtained from Dioscorea tubers

Choose the correct combination of statements.

(a) P, Q and R are correct while S is incorrect (b) P, Q and S are correct while R is incorrect

(c) Q R are correct while P. S are incorrect (d) All are correct statements

43. Atropine biosynthesis involves a pair of precursors. Identify the correct pair.

(a) Ornithine and Phenylalanine (b) Tyrosine and Tryptophan

(c) Tryptophan and Dopamine (d) Tyrosine and Dopamine

44. Study the following statements:

[P] : Lutein and zeaxanthin are flavonoids

[Q]: Lutein and zeaxanthin are xanthophylls

[R] : Lutein and zeaxanthin are required to control age-related macular degeneration

[S] : Lutein is a flavonoid while zeaxanthin is its glycoside

Choose the correct answer.

(a) P is correct while Q. R and S are incorrect

(b) Q and R are correct while P and S are incorrect

(c) Statement P is the only correct statement

(d) Statement S is the only correct statement

45. Listed below are some phytoconstituents.

[P] : Galactomannan

[Q]: Glucomannan

[R]: Barbaloin

[S] : Phyllanthin Identify the constituent(s) present in Aloe vera.

(a) Only P (b) Q and R (c) Only S (d) P and S

46. Choose the correct answer for the binomial nomenclature of fruits of star-anise.

(a) *Pimpinella anisum* (b) *Illicium verum*

(c) *Illicium anisatum* (d) *Illicium religiosum*

47. Given herewith are two statements:
[P]: Digitoxin is a secondary glycoside from Digitalis purpurea
[Q]: Digitoxin is a partially hydrolysed glycoside of Purpurea glycoside A
Determine the correctness of the above statements.
(a) Both P and Q are true (b) P is true but Q is false
(c) Both P and Q are false (d) P is false but Q is true

48. Peruvoside is naturally obtained from one of the following plants. Identify the correct name.
(a) Dioscorea (b) Ginseng (c) Liquorice (d) Thevetia

49. One of the followings is NOT required for the initiation and maintenance of plant tissue culture. Identify that.
(a) Sucrose (b) Kinetin (c) Auxin (d) Absicic acid

50. Study the relationship between the given two statements:
[P]: Capsanthin is a red coloured principle from Capscium annum
[Q]: Capsanthin is a vanillylamide of isodecenoic acid
Choose the correct answer.
(a) Both P and Q are correct (b) Both P and Q are incorrect
(c) P is correct but Q is incorrect (d) P is incorrect but Q is correct

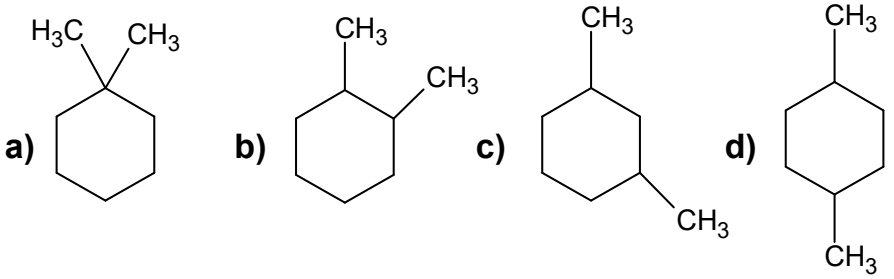
51. For the equation PV = nRT to hold true for a gas, all of the following conditions are necessary EXCEPT for ONE. Identify that.
(a) The molecules of gas must be of negligible volume
(b) Collisions between molecules must be perfectly elastic
(c) The velocities of all molecules must be equal
(d) The gas must not be decomposing

52. Atracurium besylate, a neuromuscular blocking agent, is metabolized through one of the following reactions. Identify that.
(a) Hoffman elimination (b) Hoffman rearrangement
(c) Michael addition (d) Claisen condensation

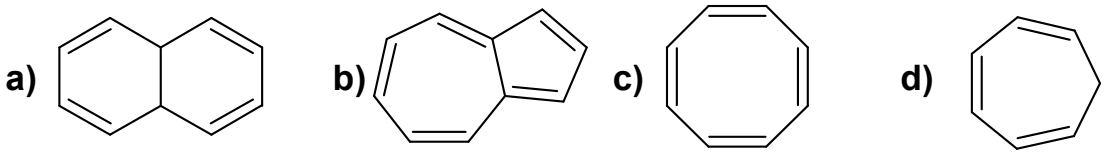
53. Identify the metabolite of prontosil responsible for its antibacterial activity.
(a) Sulphacetamide (b) Sulphanilamide
(c) p-Amino benzoic acid (d) Probenecid

54. The central bicyclic ring in penicillin is named as one of the followings. Find the correct name.
(a) 1-Thia-4-azabicyclo[3.2.1]heptanes (b) 4-Thia-1-azabicyclo[3.2.0]heptane
(c) 4-Thia-1-azabicyclo[3.2]heptanes (d) 1-Thia4-azabicyclo[1.2.3]heptanes

55. Both of the CMR and PMR spectra of an unknown compound show four absorption peaks each. Identify the unknown compound.



56. Out of the four given compounds choose the one which is aromatic



57. Quantification of minute quantity of a drug from a complex matrix, without prior separation can be done using one of the following techniques. Identify that.

(a) Coulometry (b) Potentiometry
(c) Fluorescence spectroscopy (d) Radioimmunoassay

58. Which one of the following fragmentation pathways involves a double bond and hydrogen in mass spectrometry

(a) α-Fission (b) β1- Fission
(c) Mc-Lafferty rearrangement (d) Retro-Diel's Alder rearrangement

59. Read the following statements carefully about non-aqueous titrations:

[P]: Acetate ion is the strongest base capable of existence in acetic acid.

[Q]: Mixtures of bases of different strengths can be analyzed by selecting a differentiating solvent for the bases.

[R] : Acetic acid acts as a leveling solvent for various acids like perchloric and hydrochloric acids.

[S] : Mixtures of bases of different strengths can be analyzed by selecting a leveling solvent for the bases.

Choose the correct answer.

(a) P and Q are true and R and S are false
(b) P and S are true and R and Q are false
(c) R and Q are true and P and S are false
(d) R and S are true and P and Q are false

60. Read the following statements carefully about Volhards method:

[P] : In Volhard's titration, silver ions are titrated with thiocyanates in acidic solution

[Q]: Ferric ions act as indicator in Volhard's method, yielding reddish brown ferric thiocyanate

[R] : Volhard's method is used to determine halides

[S] : Volhard's method is a dect titration

Choose the correct set of answers.

(a) P, Q and R are true and S is false
(b) Q, Rand S aretrue and P is false
(c) R, S and P true and Q is false
(d) P, Q R and S all are true

61. Identify the group of enzymes that utilizes NADP or NAD as coenzymes and catalyzes biochemical reactions by the transfer of electrons from one molecule to another.

(a) Isomerases (b) Oxidoreductases (c) Transferases (d) Ligases

62. Glucose is the only source of energy for one of the followings. Identify that.

(a) Cardiac cells (b) Nephrons (c) RBCs (d) Thrombocytes

63. Determine the correctness or otherwise of the following Assertion [a] and Reason [r]: Assertion [a] : Halogens are unusual in their effect on electrophilic aromatic substitution; they are deactivating yet ortho-, para - directing. Reason [r] : In electrophilic aromatic substitution reactions, reactivity is controlled by stronger inductive effect while orientation is controlled by the stronger hyperconjugation effect.

Choose the correct statement.

(a) [a] is true but [r] is false
(b) Both [a] and [r] are true and [r] is the correct reason for [a]
(c) Both [a] and [r] are false
(d) Both [a] and [r]are true but [r] is NOT the correct reason

64. Given are the four statements about dehydration of alcohols to give alkenes:

[P]: Ease of dehydration of alcohols takes place in the order 3° > 2°> 1°.

[Q]: Dehydration is acid catalyzed.

[R]: Orientation of the alkene formed is strongly Saytzeff.

[S]: Dehydration is irreversible.

Choose the correct combination of statements.

(a) P and Q are correct while R and S are not
(b) P, Q and R all three are correct but S is not
(c) P, Q, R and S all are correct
(d) P, Q and S all three are correct but R is not

65. Choose the correct statement regarding the synthesis of phenyl n-propyl ether.

(a) Phenyl n-propyl ether is prepared from n-propyl bromide and sodium phenoxide
(b) Phenyl n-propyl ether is prepared from bromobenzene and sodium n-propoxide
(c) Phenyl n-propyl ether can be prepared by either of the two methods
(d) Both (a) and (b) are not the correct methods for the synthesis of phenyl n-propyl ether

66. Read the following statements about SN1 reactions:

[P] : They proceed with complete inversion (Walden inversion).

[Q] : They proceed with racemization plus some net inversion.

[R] : They are characterized by rearrangements.

[S] : They *are* characterized by the reactivity sequence, CH3> 1°> 2°> 3°

Choose the correct combination?

(a) P and Q are true white R and S are false

(b) P and R are true while S and Q are false

(c) Q and R are true while P and S are false

(d) R and S are true while P and Q are false

67. Read the following statements carefully:

[P] :Pyrrole and thiophene undergo electrophilic aromatic substitution reactions much faster than benzene

[Q] :Pyrrole and thiophene undergo Diels Alder addition reaction very fast

[R] :Pyrrole and thiophene undergo nucleophilic aromatic substitution reaction faster than benzene

[S] : Pyrrole is a pie excessive system while thiophene is a pie deficient system

Choose the correct combination of statements.

(a) Q only is true while P, R and S are false

(b) R and S are true while P and Q are false

(c) P and R are true while Q and S are false

(d) P only is true white Q , R and S are false

68. Among the followings which one Is not only a non-reducing sugar but also does not exhibit mutarotation?

(a) Glucose

(b) Maltose

(c) Lactose

(d) Sucrose

69. Choose the most basic heterocyclic compound among the followings.

(a) Pyridine

(b) Imidazole

(c) Pyrrole

(d) Pyrrolidine

70. Followings are some drug derivatives used to increase/decrease the water solubility of the parent drugs:

[P] : Rolitetracycline

[Q] : Erythromycin lactobionate

[R] : Chloramphenicol succinate

[S] : Erythromycin stearate

Choose the correct combination of statements.

(a) Q and R are used to increase water solubility while P and S are used to decrease it

(b) P, Q and R are used to increase water solubility while S is used to decrease it

(c) Q, S and R are used to increase water solubility while P is used to decrease it

(d) Q and S are used to increase water solubility while P and R are used to decrease it

71. Study the following statements on prevention of crystalluria. By the given approaches crystalluria can be prevented

[P] : By co-administration of sulfadiazine, sulfamerazine and sulfamethazine

[Q] : By increasing the pH of urine

[R] : By co-administration of sulphanilamide, sulphamethoxazole and folic acid

[S] : By administration of co-trimoxazole

Choose the correct combination of statements.

(a) P and Q are correct (b) R and S are correct

(c) P and R are correct (d) Q and R are correct

72. Progesterone Is obtained from diosgenin through the following sequence of chemical reactions:

[P] : Acetylation, CrO_3 (oxidation), Acetolysis, H_2/Pd, Hydrolysis and Oppenauer oxidation

[Q] : Oppenauer oxidation, Acetylation, CrO_3 (oxidation), Acetolysis, H_2/Pd and Hydrolysis

[R] : CrO_3 (oxidation), Acetolysis, Acetytation, Oppenauer oxidation, Hydrolysis and H_2/Pd

[S] : Acetylation, H_2/Pd, Hydrolysis, CrO_3 (oxidation), Oppenauer oxidation and Acetolysis

Choose the correct sequence of reactions.

(a) P (b) Q (c) R (d) S

73. Following statements are given for local anaesthetic drug lidocaine:

[P] : It contains a xylidine moiety

[Q]: It can be used as antiarrhythmic agent on oral administration.

[R] : When administered along with adrenaline its toxicity is reduced and its effect is prolonged.

[S] : Chemically it is 2-diethylamino-2',6'-dimethylphenyl acetamide

Choose the correct combination of statements.

(a) P, Q and S (b) P, Q and R

(c) P, R and S (d) Q, R and S

74. One of the following ring systems can be used as the bioisosteric replacement for benzene ring in drug design:

[P]: Thiophene [Q]: Cyclohexa-l,3-diene

[R]: Pyrrolidine [S]: Imidazoline

Identify the correct answer. –

(a) P (b) Q (c) R (d) S

75. Some of the following statements describe the properties of Dropping Mercury Electrode (DME) correctly:

[P] Constant renewal of electrode surface eliminates poisoning effects.

[Q] Mercury makes many metal ions easily reducible.

[R] Mercury has large hydrogen over-voltage.

[S] The electrode can get oxidised with ease.

Identify the correct combination.

(a) All statements P. Q, R and S are correct

(b) Statements P. Q and R only are correct

(c) Statements P, R and S only are correct

(d) Statements P, Q and S only are correct

76. Penicillin ring system is derived from two of the following amino acids:

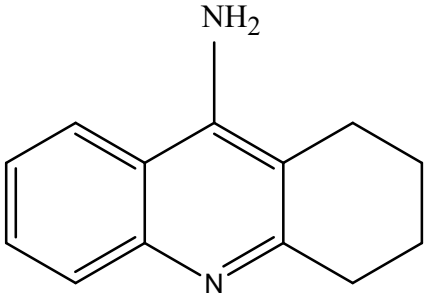
[P] : Alanine and methionine [Q] : Cysteine and valine

[R] : Glycine and cysteine [S] : Methionine and leucine

Choose the correct pair.

(a) P (b) Q (c) R (d) S

77. For the management of which disease the given drug tacrine is used? Identify.



(a) Glaucoma (b) Antidote for acticholinesterase poisoning

(c) As an insecticide (d) Alzheimers disease

78. Low dose aspirin acts as anti-platelet aggregating agent by which one of the following mechanisms? Find the correct answer

(a) It acts as a suicide substrate for COX-1 enzyme present in platelets

(b) It acts as a transition state analog for COX-2 enzyme present in the platelets

(c) It acts as a reversible inhibitor of lipoxigenase present in the platelets

(d) It acts as an affinity label of oxidoreductases present in the platelets

79. Some statements are given for clavulanic acid, sulbactam and tazobactam:

[P] : All three lack the 6-acylamino side chain

[Q]: All are potent inhibitors of the enzyme β-lactamase

[R] : All are prodrugs of penicillin

[S] : All have weak antibacterial activity

Choose the correct combination of statements.

(a) P, Q and R are true while S is false (b) Q, R and S are true while P is false

(c) P, R and S are true while Q is false (d) P. Q and S are true while R is false

80. Electrophilic aromatic substitution reactions in indole give one of the following products preferably. Identify that.

(a) 3-Substituted indole (b) 2-Substituted indole

(c) 5-Substituted indole (d) 6-Substituted indole

81. Which one of the following species is an intermediate in the reaction shown below

$$2CH_3CH_2CHO \xrightarrow{NaOH} CH_3CH_2CH(OH).CH(CH_3).CHO$$

(a) $+CH_2.CH_2.CHO$ (b) $-CH_2.CH_2.CHO$

(c) $CH_3.+CH.CHO$ (d) $CH_3.-CH.CHO$

82. Which detector is used in gas chromatography for halogen containing compounds specifically

(a) Katharometer (b) Electron capture detector

(c) Flame ionization detector (d) Thermal conductivity detector

83. Precessional frequency of a nucleus depends on the followings:

[P] : Quantum of externally applied magnetic field

[Q] : Quantum of electron density present around the nucleus

[R]: Frequency of applied electromagnetic radiations

[S] :Electronegativity of the element

Choose the correct combination of statements.

(a) P&Q are true (b) P&R are true (c) Q&R are true (d) P&S are true

84. Some statements are given about disodium edetate:

[P] : Disodium edetate is a bidentate ligand

[Q] : Disodium edetate is a complexing agent but not a chelating agent

[R]: Disodium edetate can be used for the assay of lithium carbonate

[S] : Disodium edetate can be used for the assay of zinc sulphate

Choose the correct answer.

(a) Q,R&S are true (b) Q&S are true (c) S only is true (d) P. Q, R & S all are true

85. Which one of the following amino acids is the most effective contributor of protein buffer?

(a) Alanine (b) Glycine (c) Histidine (d) Arginine

86. Given are some statements about cycloalkanes:

[P] : Bayer's theory does not apply to four membered rings.

[Q]: Cyclohexane and cyclodecane rings are not flat but are puckered.

[R]: Chair form of cyclohexane experiences van der Waals strain due to flagpole interactions.

[S] : Boat form of cyclohexane experiences both torsional and van der Waals strain.

Choose the correct combination of statements.

(a) P, Q & R are true and S is false (b) Q & S are true and P & R are false

(c) P, Q& S are true and R is false (d) Q, R & S are true and P is false

87. Phenols are more acidic than alcohols. This is due to one the following reasons. Identify that.

(a) Alkoxide ions are better stabilized by the electron releasing alkyl groups

(b) Resonance stabilizes both phenols and phenoxide ions to the same extent

(c) Phenols are better stabilized than the phenoxide ions while reverse is true for alcohols and alkoxides

(d) Phenoxide ions are much better stabilized than the alkoxide ions

88. Study the following statements on alkylating agents as antineoplastics:

[P] : They get converted to azindinium ions and bind to 7th position -N atom of guanine of DNA base pairs

[Q]: Nitrogen mustards and Sulfur mustards belong to this class of drugs

[R] : They inhibit dihydrofolate reductase enzyme thereby inhibiting DNA synthesis

[S] : They chelate electropositive atoms present in the DNA thereby inhibiting DNA uncoiling

Choose the correct combination of statements.

(a) P and Q are correct (b) R and S are correct

(c) P and S are correct (d) Q and R are correct

89. Study the following statements about the stereochemistry of steroidal aglycones in cardiac glycosides:

[P]: Rings A-B and C-D are cis fused while B-C is trans fused.

[Q]: Rings A-B and C-D are trans fused while B-C is cis fused.

[R]: Rings A-B are trans fused while B-C and C-D are cis fused.

[S]: Rings A-B are cis fused while B-C and C-D are trans fused.

Choose the correct statement.

(a) P is true while Q, R and S are false (b) Q is true while P, R and S are false

(c) R is true while P. Q and S are false (d) S is true while P, R and Q are false

90. Following are some statements about Captopril:

[P] : It is a prototype molecule in the design of ACE inhibitors

[Q]: It contains a suiphonyl group in its structure

[R]: It has a proline moiety in its structure

[S] : It has an ester linkage

Choose the correct combination of statements.

(a) P & Q are true while R & S are false (b) Q & R are true while P & S are false

(c) P & R are true while Q & S are false (d) R & S are true while P & Q are false

91. Cetirizine as an antihistaminic agent has a low sedative potential due to one of the following reasons. Identify that.

(a) It has a chiral center (b) It has high log P value

(c) It has high polarity (d) It has low molecular weight

92. There are some criteria which an ideal antacid should fulfill. Some of them given below:

[P] : The antacidshould be absorbable orally and should buffer in the pH range of 4 - 6

[Q]: The antacid should exert its effect rapidly and should not cause a large evolution of gas

[R] : The antacid should not be a laxative or should not cause constipation

[S] : The antacid should react with the gastric acid and should inhibit pepsin

Choose the correct combination of criteria for an ideal antacid.

(a) P, Q&R (b) Q, R&S (c) Q&R (d) R & S

93. Titanium dioxide is used in sun screen products as a topical protective. The topical protective effect of titanium dioxide is arising due to one of the following properties. Identify that.

(a) It has a high bulk density (b) It has a high LW absorptivity

(c) It has a low water solubility (d) It has a high refractive index

94. Deferoxamine is used for the treatment of toxicity caused by one of the following ions. Identify that.

(a) Arsenic (b) Cyanide (c) Iron (d) Lead

95. Parachor and Molar refraction can be categorized under one of the following properties. Identify that.

(a) Additive properties (b) Constitutive properties

(c) Colligative properties (d) Additive and constitutive property

96. East's camphor method Is used for determination of molecular weight of solutes which are soluble in molten camphor. The basic principle of the method is dependent on one of the following properties. Identify that.

(a) Elevation of freezing point of camphor by the solute

(b) Lowering of vapour pressure of camphor by the solute

(c) Lowering of freezing point of camphor by the solute

(d) Elevation of boiling point of camphor by the solute

97. In polarography, when the limiting current is achieved, one of the following processes takes place. Choose that.
(a) The rate of electron transfer just matches the rate of mass transfer
(b) The rate of electron transfer is slower than the rate of mass transfer
(c) The rate of electron transfer becomes independent of the rate of mass transfer
(d) The rate of electron transfer far exceeds the rate of mass transfer

98. Starch-iodide paste/paper is used as an external indicator in one of the following titrations. Identify that.
(a) Iodometric titration of copper sulphate using sodium thiosulphate as titrant
(b) Iodimetric titration of ascorbic acid using iodine solution as titrant
(c) Diazotisation titration of sulphadiazine using Sodium nitrite as titrant
(d) Potassium dichromate titration using sodium thiosuiphate as titrant

99. For a dye to be used as metal indicator in complexometric titrations, some of the dye properties are listed below:
[P] : The dye should have distinct colour than the dye-metal complex
[Q]: The dye-metal complex should have a higher stability than the metal-chelate (titrant) complex
[R] : The dye should be capable of complexing with the metal ions
Choose the correct combination of statements for the dye to be used as an indicator in complexometric titrations.
(a) P & Q are correct while R is not
(b) Q & R are correct while P is not
(c) P & Rare correct while Q is not
(d) P, Q & R all are correct

100. In amperometry, rotating platinum electrode (RPE) is used as indicating electrode. It has certain advantages as well as disadvantages. Read the following statements about the use of rotating platinum electrode in amperometry:
[P] : It causes large diffusion current due to rotation resulting in greater mass transfer
[Q]: It causes greatly reduced residual current due to lack of condenser effect
[R] : It has a low hydrogen over potential
Choose the correct combination of statements.
(a) P, Q & R are all advantages of using RPE in amperometry
(b) P & R are advantages of RPE while Q is a disadvantage
(c) Q & R are advantages of RPE while P is a disadvantage
(d) P & Q are advantages of RPE while R is a disadvantage

101. What will be the approximate T_{max} of a drug exhibiting K_a of 2 hr^{-1} and K of 0.2 hr^{-1}?
(a) 1.2 hr (b) 2.4 hr (c) 4.8 hr (d) 2.0 hr

102. There are some statements related to the protein binding of drugs as given below:

[P] : Protein binding decreases the free drug concentration in the system.

[Q]: Protein binding to plasma albumin is an irreversible process.

[R] : Drugs with a low lipophilicity have a high degree of protein binding.

[S] : Protein binding of one drug can be affected by the presence of other drug.

Choose the correct combination of statements.

(a) P & Q are true while R & S are false
(b) Q & R are true while P & S are false
(c) R &S are true while P & Q are false
(d) P &S are true while Q& R are false

103. Based on Henderson-Hasselbalch equation, at what pH value a weak acid would be 99.9% ionized

(a) At pH equIvalent to pka +3
(b) At pH equivalent to pka -3
(c) At pH equivalent to pka -1
(d) At pH equivalent to pka +1

104. Some statements about crystals are given below:

[P] : The crystal lattice is constructed from repeating units called unit cells.

[Q]: The external appearance of a crystal is described by crystal habits, such as needles, prisms, rosettes etc.

[R] : Polymorphism is the ability of a compound to crystallize as more than one distinct crystalline species with different internal lattice.

[S] : Hydrates are always more soluble than anhydrous form of the same drug

Choose the corrected combination of statements about crystals.

(a) Statement P, Q and S are correct but R is wrong
(b) Statement P, Q and R are correct but S is wrong
(c) Statement Q, R and S are correct but P is wrong
(d) Statement R, S and P are correct but Q is wrong

105. Which one of the followings Is NOT used In preparation of baby powders

(a) Stearic acid (b) Boric acid (c) Kaolin (d) Calcium carbonate

106. According to Kozeny Carmen equation a 10% change in porosity can produce:

(a) Two fold change in viscosity
(b) Five fold change in viscosity
(c) Three fold change in viscosity
(d) None of the above

107. Speed disk atomizer rotates at a speed of:

(a) 3000 - 5000 revolutions per mm
(b) 3000 - 50000 revolutions per mm
(c) 300 - 50000 revolutions per mm
(d) 300 - 5000 revolutions per mm

108. The thickness Gold coating on a USP Dissolution apparatus - I basket should be:

(a) Not more than 2.5 µ in thickness
(b) Not more than 0.001 mm in thickness
(c) Not more than 0.025 µ in thickness
(d) Not more than 0.1 mm in thickness

109. Containers used for aerosols should withstand a pressure of:

(a) 130-150 Psig at 130 °F
(b) 140-180 Psig at 130 °F
(c) 140-170 Psig at 120 °F
(d) 120-140 Psig at 120 °F

110. Study the following two statements:

[X] : If the gas is cooled below its critical temperature, less pressure is required to liquefy it.

[V] : At critical temperature and critical pressure, the liquid will have highest vapor pressure.

Choose the correct combination of statements.

(a) Both X and V are correct
(b) X is incorrect and V is correct
(c) X is correct and V is incorrect
(d) Both X and Y are incorrect

111. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion [a]: For an API of approximately same particle size, the angle of repose will Increase with departure from spherical shape.

Reason[r] : Angle of repose is a function of surface roughness and particle size. With constant particle size, increase in roughness increases angle of repose.

(a) Although [a] is true but [r] is false
(b) Both [a] and [r] are false
(c) Both [a] and [r] are true and [rJ is the correct reason for [a]
(d) Both [a] and [r] are true but [r] is NOT the correct reason for [a]

112. Study the following two statement

[X] :When used as granulating agent PEG 6000 improves dissolution rate of the dosage form as it forms a complex with a better solubility.,

[Y] :Sodium CMC when used as a binder affects dissolution rate of the dosage form as it is converted to less soluble acid form at low pH of the gastric fluid.

Choose the correct answer.

(a) Both X and Y are correct
(b) X is incorrect and Y is correct
(c) X is correct and Y is incorrect
(d) Both X and Y are incorrect

113. Study the following statements about Gram staining:

[P]: Gram positive bacteria are stained deep violet and Gram negative bacteria are stained red.

[Q]: Gram positive bacteria are stained red and Gram negative bacteria are stained deep violet.

[R]: The sequence of addition of staining reagents is crystal violet, iodine solution, alcohol and safranin.

[S] : In Gram positive bacteria the purple color developed during staining is lost during alcohol treatment. The cells later take up the safranin and stain red.

Choose the correct combination of statements.

(a) P, Q, R & S all are false
(b) P & Q are false and R & S are true
(c) P&S are false and Q&R are true
(d) P&R are false and Q&S are true

114. Choose the correct formula for the calculation of the retail price of a formulation, given by the Govt of India.

(a) R.P. = (M.C. + E.D. + P.M. + P.C.) x (1 + MAPE/ 100) + C.C.

(b) R.P. = (M.C. + C.C. + P.M. + P.C.) x (1 + MAPE/ 100) + E.D.

(c) R.P. = (M.C. + C.C. + E.D. + P.C.) x (1 + MAPE/100) + P.M.

(d) R.P. = (M.C, + C.C. + P.M.+ E.D.) x (1 + MAPE/100) + P.C.

115. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion [a] In arsenic poisoning, dimercaprol, injected intramuscularly, acts as antidote by metal complexation.

Reason [r] : EDTA acts as an antidote in lead poisoing, by solubilizing the toxic metal ions from the tissues.

(a) Although [a] is true but [r] is false

(b) Both [a] and [r] are false

(c) Both (a] and [r] are true and [r] is the correct reason for [a]

(d) Both [a] and [r] are true but [ii is NOT the correct reason for [a]

116. Determine the correctness or otherwise of the following Assertion [a] and the Reasons [r]

Assertion [a] : Butylated hydroxytoluene is added as one of the ingredients in the lipstick formulation.

Reason [r] : It is a good solvent for the wax - oil mixtures and coloring pigments present in the lipstick.

Reason [s] It Is an antioxidant and prevents rancidity on storage.

(a) [a] is true, and [r] and [s] are true and correct reasons for [a]

(b) [a], [r] and [s] are all false

(c) [a] is true, [s] is false, and [r] is the correct reason for [a]

(d) [a] is true, [r] is false, and [s] is the correct reason for [a]

117. Which one of the following statements is FALSE about Interferons?

(a) Interferons are cellular glycoproteins produced by virus infected cell

(b) Interferons have no effects on extracellular virus

(c) Interferons are virus specific agents that can interfere either with DNA or RNA virus

(d) They are produced as potent broad spectrum antiviral agents

118. In relation to sodium chloride and water mixture, read the following statements:

[P] : Mixture is eutectic in nature

[Q]: It has eutectic point -21.2°C

[R]: The composition of eutectic is 25.3% by Mass

[S] : The mixture is a true eutectoid and may exist as peritectic also.

Which of the set of statements is correct?

(a) P&Q (b) Q, R&S (c) P, Q&S (d), P, R & S

119. In relation to sterilization, what is the meaning of D300F - 2 minutes?

(a) Death of all microorganisms in 2 minutes

(b) Death of 300 microorganism in 2 minutes

(c) Death of all microorganism in 2 minutes at 300°F

(d) Death of 90% microorganism in 2 minutes at 300°F

120. Choose the correct combination:

(i) Rod mill	(p) Dried plant drug
(ii) Hammer mill	(q) Thermolabile drug
(iii) Fluid energy mill	(r) Paint

(a) (i) & (q) (ii) & (p) (iii) & (r) (b) (i) & (r), (ii) & (p), (iii)&(q)

(c) (i)&(q), (ii)&(r), (iii) & (p) (d) (i) & (p)(ii) & (q), (iii)&(r)

121. Which following statements Is NOT true for stainless steel 316?

(a) It is also called inox steel

(b) lt contains 10.5 - 11% chromium

(c) The presence of chromium it exhibits passivation phenomenon

(d) It is not affected by acids

122. Precise control of flow is obtained by which one of the followings?

(a) Needle valve (b) Butterfly valve (c) Gate valve (d) Globe valve

123. Heat sensitive materials like fruit juice are evaporated in which one of the followings?

(a) Long tube vertical evaporator (b) Calandria type evaporator

(c) Falling film type evaporator (d) Forced circulation type evaporator

124. Which of the following conditions favor formation of large crystals?

(a) High degree of supersaturation (b) Low nucleation rate

(c) High magma density (d) Rapid cooling of magma

125. If M, L, T, Q and θ are dimensional representations of mass, length, time, heat and temperature respectively, then what is the dimension of fluid thermal conductivity?

(a) Q/Mθ (b) Q/TL2θ (c) Q/TLθ (d) M/LT

126. Which one of the following properties is characteristic of microemulsions

(a) These are transparent systems with droplet size less than 1 μm

(b) These are transparent systems with droplet size less than 10 μm

(c) These are non-transparent systems with droplet size less than 1 μm

(d) These are transparent systems with droplet size less than 1 nm

127. Which one of the followings would be an offence in accordance with the provisions of the Drugs and Cosmetics Act, 1940?

(a) Packing of Paediatric oral drops in 30 ml pack

(b) Packing of Oxytocin injection in a single unit blister pack

(c) Packing of Schedule X drugs in 5 ml injection pack

(d) Packing of Aspirin tablets (75 mg) in 14 tablet strip pack

128. Which one of the following colours is NOT permitted to be used in drugs by the Drugs and Cosmetics Act, 1940?

(a) Chlorophyll (b) Riboflavin (c) Tartrazine (d) Amaranth

129. At equal concentrations which one of the following mucilages will possess maximum viscosity?

(a) Maize starch (b) Rice starch (c) Wheat starch (d) Potato starch

130. By which mechanism the microorganisms are killed by autoclaving?

(a) Coagulation of the cellular proteins of the microorganisms

(b) Alkylation of essential cellular metabolites of microorganisms

(c) Stopping reproduction of microorganism cells as a result of lethal mutations

(d) Oxidation of RNA of microorganisms

131. Manufacture and sale of some of the following drugs is prohibited in India:

[P] : Fixed dose combination of atropine and antidiarrhoeals

[Q]: Penicillin eye ointment

[R]: Nimesulide paediatric drops

[S] : Gatifloxacin tablets

Choose the drugs which are prohibited?

(a) P,Q&R (b) Q,S&R (c) R,S&P (d) P,Q,R&S

132. Following are the phases of clinical trials:

[P] : Human pharmacology [Q]: Therapeutic confirmatory trials

[R] : Post marketing trials [S] : Therapeutic exploratory trials

Choose the correct order of phases of clinical trial.

(a) P,Q,R,S (b) P,R,Q, S (c) P,Q,S,R (d) P,S,Q R

133. The integrity of seals in case of vials and bottles is determined by some tests. Some of them are given below:

[P]: Leaker's test [Q]: Water hammer test [R]: Spark tester probe

Choose the correct answer.

(a) P & Q (b) Q&R (c) P&R (d) P,Q & R

134. Study the following four statements:

[P] : Gram negative bacteria produce potent pyrogenic substances called endotoxins

[Q]: Ethylene oxide mixed with carbon dioxide or fluorinated hydrocarbons is used in gas sterilization

[R]: D value is the time (for heat or chemical exposure) or the dose (for radiation exposure) required for the microbial population to decline by one logarithmic unit

[S]: Spores of *Geobacillus stearothermophilus* (*Bacillus stearothermophilus*) are used for sterility testing of moist heat sterilization process

Choose the correct answer.

(a) P. Q & R are correct but S is incorrect
(b) Q, R & S are correct but P is incorrect
(c) R, S & P are correct but Q is incorrect
(d) P. Q, R & S all are correct

135. Read the following statements:

[P] : The surface area measurement using BET approach utilizes argon gas for adsorption

[Q]: Full form of BET is Brunauer, Emmett and Teller

Choose the correct answer.

(a) P&Q both are correct
(b) P is correct but Q is incorrect
(c) Q is correct but P is incorrect
(d) Both P & Q are incorrect

136. Based on the DLVO theory of force of interaction between colloidal particles, which one of the followings lead to attractive interaction between two particles?

(a) Solvation forces
(b) Electrostatic forces
(c) van der Waals forces
(d) Steric forces

137. Read the following statements with regard to viscosity of a polymer solution:

[P] : Specific viscosity of a polymer solution is obtained as relative viscosity + 1

[Q]: Relative viscosity is the ratio of the viscosity of the solution to the viscosity of pure solvent

[R]: Kinematic viscosity is defined as the viscosity of the liquid at a definite temperature

[S] : The unit for kinematic viscosity is poise or dyne sec cm^{-2} Indicate the correct combination of statements.

(a) P & S are correct but Q&R are wrong
(b) Q & R are correct but P & S are wrong
(c) P & Q are correct but R & S are wrong
(d) R & S are correct but P & Q are wrong

138. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]

Assertion [a] : Salts having no ions in common with the slightly soluble electrolyte increase its solubility

Reason [r] : Such salts lower the activity coefficient of the slightly soluble electrolyte

(a) Both [a] and [r] are true and [r] is the correct reason for [a]
(b) Both [a] and [r] are false
(c) Although [a] is true but [r] is false
(d) Both [a] and [r] are true but [r] is NOT the correct reason for [a]

139. What negative adsorption would do

(a) Decrease the surface free energy as well as the surface tension

(b) Increase the surface free energy as well as the surface tension

(c) Decrease the surface free energy but increase the surface tension

(d) Increase the surface free energy but decrease the surface tension

140. Read the following statements:

[P] : At temperature below Kraft point, micelles will, not form

[Q]: At Kraft point, solubility of surfactant equals CMC

[R] : Kraft point increases with increasing chain length of hydrocarbon

[S] : Kraft point is normally exhibited by non-ionic surfactants

Choose the correct combination of answers.

(a) P is correct but Q, R & S are wrong

(b) R & S are correct but P& Q are wrong

(c) P, Q & R are correct but S is wrong

(d) All correct

141. Two statements are given regarding the uniformity of dispersion test (LP):

[P] : It Is evaluated using 6 tablets and 500 mL water

[Q]: It involves measuring the dispersion time of each tablet

Choose the correct set of statements.

(a) P is correct while Q is incorrect

(b) P & Q both are correct

(c) P is incorrect while Q is correct

(d) Both P & Q are incorrect

142. Read the following statements:

[P] : Caramelization occurs in acidic conditions

[Q]: Caramel is optically inactive glucose

[R] : Caramel is obtained by burning of glucose

[S] : Caramel is obtained by degradation of fructose

Choose the right combination of statements.

(a) P & Q are true but R & S are false

(b) P & S are true but Q & R are false

(c) Q & R are true but P & S are false

(d) R & S are true but P & Q are false

143. Read the following statements regarding value added tax (VAT):

[P] : It is an indirect tax

[Q]: It is charged at the rate of 8%

[R] : It is tax at source

[S] : It is effective since April 2010

Choose the correct option.

(a) P&Q are true R&S are false

(b) R & S are true P & Q are false

(c) P&R are true Q&S are false

(d) Q&S are true P&R are false

144. Find the process by which the conversion of sulfasalazine to sulfapyidine and 5-amino salicylic acid takes place in the colon

(a) Hydrolysis (b) Deamination (c) Acetylation (d) Azoreduction

145. How much quantity (In grams) of sodium chloride Is needed to make 30 ml of a 2% isotonic drug (sodium chloride equivalent 0.20) solution

(a) 0.60 (b) 0.27 (c) 0.15 (d) 0.12

146. Read the following statements about lyophilization:

[P] : Lyophilization cannot be done in final containers like multiple dose containers.

[Q]: Lyophilized product needs special methods for reconstitution.

[R]: Lyophilization causes protein denaturation in tissues.

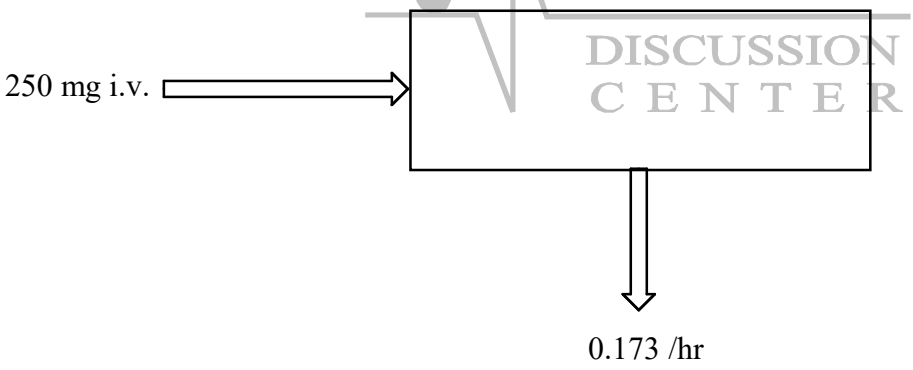
[S] : Lyophilization is suitable for drying the thermolabile products.

Choose the correct combination of statements.

(a) P is true and Q R & S are false (b) Q is true and P, R & S are false

(c) R is true and P. Q & S are false (d) S is true and P, Q & R are false

147. In a pharmacokinetic model depicted In the following scheme, what is the half-life of the drug if the apparent volume of distribution of the drug is 25 L?



(a) 1.7 hr (b) 2 hr (c) 4 hr (d) 3hr

148. A sample of paracetamol tablets claims to contain 500 mg of paracetamol. But, on analysis by Govt. Analyst, it was found to contain 200 mg. As per Drugs and Cosmetics Act, 1940, this product would be categorized as what?

(a) Misbranded drug (b) Adulterated drug

(c) Spurious drug (d) Unethical drug

149. Use of which of the following artificial sweeteners is permitted in various dosage forms of Ayurveda, Siddha and Unani proprietary medicines?

(a) Sucralose (b) Aspartame

(c) Saccharin (d) All of them

150. What will be the maintenance dose of a sustained release 12 hour formulation of drug X exhibiting one compartment kinetics with a half-life of 6 hours, plasma concentration (steady state) 6 μg/ml, volume of distribution 30 L, and an oral bioavailability of 80%?

(a) 249.48 mg (b) 225.48 mg (c) 311.85 mg (d) 281.85 mg

End of paper

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ANSWER KEY GPAT 2012

1-a	2-c	3-b	4-a	5-a	6-b	7-c	8-b	9-d	10-c
11-b	12-d	13-d	14-b	15-a	16-d	17-a	18-d	19-b	20-c
21-d	22-a	23-c	24-d	25-c	26-b	27-c	28-d	29-a	30-b
31-c	32-d	33-d	34-c	35-b	36-b	37-b	38-d	39-a	40-a
41-b	42-a	43-a	44-b	45-b	46-b	47-a	48-d	49-d	50-c
51-c	52-a	53-b	54-b	55-b	56-b	57-d	58-c	59-a	60-a
61-b	62-b	63-a	64-b	65-a	66-c	67-d	68-d	69-d	70-b
71-a	72-a	73-c	74-a	75-a	76-b	77-d	78-a	79-d	80-a
81-d	82-b	83-a	84-c	85-c	86-b	87-d	88-a	89-a	90-c
91-c	92-c	93-d	94-c	95-d	96-c	97-d	98-c	99-c	100-d
101-a	102-d	103-a	104-a	105-b	106-b	107-c	108-b	109-b	110-a
111-c	112-b	113-c	114-b	115-d	116-d	117-c	118-a	119-d	120-b
121-d	122-a	123-c	124-b	125-d	126-a	127-a	128-d	129-d	130-a
131-d	132-d	133-b	134-d	135-c	136-c	137-b	138-a	139-b	140-c
141-d	142-b	143-c	144-d	145-c	146-d	147-c	148-a	149-d	150-c

GPAT QUESTIONS

1. Heckel's plot represents .....
   (a) Extent of plastic and elastic deformation of material during compaction
   (b) Force-time of force-displacement relationship
   (c) Pressure-porosity (volume) relationship
   (d) Stress relaxation measurements
2. Which of the following would cause increase in the binding strength at the dry granulation process in significant degree
   (a) Carboxymethylamylopectiglycolate
   (b) Macrogol 4000
   (c) Magnesium Stearate
   (d) Lactose
3. The correct statements concerning concertation microencapsulation
   (1) Concertation always leads to monophasic microcapsule
   (2) When the gelatin is used for microcapsule's wall material, the concertation is bound to happen
   (3) Only gelatin can be used for microcapsule's wall
   (4) Simple or compound concertation can be distinguished according to the number of macromolecular colloids taking part in the process
   (5) The pH conditions of the system and the solubility of the auxiliary materials do not have any effect on the preparation of the microcapsule
   (a) Only 1 and 4 are correct
   (b) Only 2 and 3 are correct
   (c) Only 1 and 5 are correct
   (d) Only 2 and 4 are correct
4. Cyclohexanone exhibits only ..... peaks in 13CNMR spectrum due to symmetry
   (a) 2 (b) 3 (c) 4 (d) 5
5. If an organic compound does not absorb UV visible radiation it means compound does not contain .....
   (a) Single bond
   (b) Sigma bond
   (c) Conjugated double bond
   (d) Dative bond
6. The positively polarized carbon atom of a carbonyl group acts as.....
   (a) An electrophile and a lewis base
   (b) A nucleophile and a lewis acid
   (c) A nucleophile and a lewis base
   (d) An electrophile and a lewis acid

7. The Pinene hydrochloride rearranged into bornylterpenoid is called as.....
   (a) Wagner-Meerwein rearrangement
   (b) A nucleophile and a lewis acid
   (c) Fries rearrangements
   (d) Backmann rearrangement
8. The mouse model for type I diabetes mellitus is.....
   (a) NZB mouse
   (b) SCID mouse
   (c) Nude mouse
   (d) NOD mouse
9. Cholesterol contributors to ..... Of the biological membrane
   (a) Rigidity
   (b) Fluidity
   (c) Permeability
   (d) Osmolality
10. Active site for all serine proteases consists of which triad
   (a) Ser-Glu-Asp
   (b) Ser-Glu-Met
   (c) Ser-His-Asp
   (d) Ala-Glu-Met
11. _____, Anthelmintics having Immunosuppressant activity.
   (a) Piperazine (b) Levamisole (c) Ivermectin (d) Niclosamide
12. Which of the following is selective $\alpha 2$ selective antagonist
   (a) Clonidine
   (b) Prozocin
   (c) Phentalamine
   (d) Yohimbine
13. Which one of the following in NOT a protoplast fusion agent
   (a) Incacitivated Sendai Virus
   (b) Ca^{++} at alkaline pH
   (c) Polythelen glycol
   (d) Coltchicine
14. Clinically used Labetolol is .....
   (a) S, S (b) R, R (c) R, S (d) S, R
15. For intramuscular injection, angle of administration is..... Degree
   (a) 30 (b) 45 (c) 60 (d) 90
16. Aromatase is an enzyme complex that is the target for several anticancer drugs. Which of the following anticancer drugs targets aromatase
   (a) Cyptoteraone acetate
   (b) Reloxifene
   (c) Aminoglutethimide
   (d) Testosterone propionate
17. Vinca alkaloids that are used in combination therapy to treat a variety of tumors. How to cancer cells normally gain resistance to these agents
   (a) Mutation of the target structure
   (b) Overexpression of the carrier protein called P- glycoprotein
   (c) Increased metabolism of the drug
   (d) Decreased ability of the drug to enter target cells
18. A set of closely related genes of generic markers that are inherited as a single unit is
   (a) Cistron (b) Gene families (c) Haplotype (d) Haploid

19. Ginseng saponins belong to the series of.....
(a) Lupane (d) Brsane (c) Oleanane (d) Dammrane

20. Stokes Einstein equation to the series of.....
(a) Enegy changes in Sedimentaition suspension setting
(b) Sedimetation of suspention
(c) Diffusion coefficient
(d) Coefficient of energy consumption

21. The source of radiation for FAR IR spectrometer is.....
(a) Golay cell (b) Nernst glower and globar
(c) Mercury lamp (d) Highly heated tungsten filament

22. Which of the following alkaloids derived from lysine
(a) Emtin (b) Cinchonidin
(c) Brucin (d) Lobelin

23. The agent that can only be given intravenously for heart failure is.....
(a) Digoxin (b) Amiodarone
(c) Quinidine (d) Dobutamine

24. A prescription order for an antibiotic preparation includes the directions 'ii gtt AU q.i.d" what auxiliary label should be affixed to the prescription order container
(a) Take with meals (b) For the eye
(c) For rectal use (d) For the ear

25. Which one of the following amino acid residues is specifically recognized by chymotrypsin during peptide bond cleavage
(a) Phe (b) Leu (c) Val (d) Asp

26. Which of the following criteria should be considered when reviewing a medication for addition to the hospital formulary
(a) The amount of samples provided to hospital physicians
(b) Research funds donated to the hospital by the pharmaceutical company
(c) National adverse drug reaction reports
(d) Whether is a gluten-free oral formulation

27. Identify the GABA reuptake inhibitor
(a) Progabide (b) Tigabine (c) Bicuculline (d) Baclofen

28. What in the reason of complicated penetration of some drugs through brain-blood barrier
(a) High lipid solubility of a drug
(b) High endocytosis degree in a brain capillary
(c) Absence of pores in the brain capillary endothelium
(d) Meningitis

29. Reynold's number is given by.....
(a) Re = μ/ρvD (b) Re = ρv/μD
(c) Re = ρvD/μ (d) Re = vD/ρμ

30. The increase in concentration of second messengers (cAMP, cGMP, Ca^{2+} etc.) leads to:
(a) Inhibition of intracellular protein kinases and protein phosphorylation
(b) Protein kinases activation and protein phosphorylation
(c) blocking of interaction between a receptor and an effector
(d) Antagonism with endogenous legands

31. Which of the following cholinomimetics activates both muscarinic and nicotinic receptors
(a) Lobeline (b) Pilocarpine (c) Carbachol (d) Bethanechol

32. Deoxy position of deoxyribose in DNA is at.....
(a) 1^{st} carbon (b) 2^{nd} carbon (c) 3^{rd} carbon (d) 5^{th} carbon

33. All are potent 3A4 inhibitors EXCEPT.....
(a) Antifungals (-azoles) (b) Protease inhibitors (-avir)
(c) Macrolides (-mycin) (d) Barbiturates

34. 'Probability of nonsterility' is given by.....
(a) F value (b) Z value (c) D value (d) None of the above

35. Which of the following is a selective medium for the growth of vibreochelerae
(a) Thayer martin medium (b) Cefoxitin cycloserine fructose agar
(c) Skirrow's medium (d) Thiosulfate citratr bile surcrose agar

36. Specific conductance unit is.....
(a) Ohm cm^{-1} (b) Mho cm^{-1} (c) Ohm cm (d) None of the above

37. Karplus curve is associated with which spectroscopy
(a) UV (b) Mass (c) FTIR (d) NMR

38. Which of the following pair of volujmetric method of argentometric titration and indicator used is matched correctly
(1) Fajan's Method — Chromate
(2) Mohr's method — Fluroescein
(3) Vohlard's method — Ferric salt
The method and indicator matches correctly in.....
(a) 1 and 2 only (b) 2 and 3 only (c) 3 only (d) 2 only

39. The reaction of the citric acid cycle that is most similar to the pyruvate dehydrogenase complex catalyzed conversion of pyruvate to acetyl-CoA is the conversion of
(a) Citrate to isocitrate (b) Fumarate to malate
(c) Malate to oxaloacetate (d) α-ketogultarate to succinyl-CoA

40. Which one of the following pairs of lipids & related compounds exbibit opposite biological activities
(a) 5-HPETE & leukotriene D4
(b) Cholic acid & Lithocholic acid
(c) Neuraminidase Inhibitors
(d) Acetone & β-hydroxybutyprate

41. HIV may NOT respond to.....
(a) Nucleoside analogues
(b) Protease inhibitors
(c) Neuraminidase inhibitors
(d) Reverse transcriptase inhibitors

42. Palmitic, oleic or stearic acid ester of cholesterol used manufacture of cosmetic creams is.....
(a) Oleo oil
(b) Lanoline
(c) Spermaceti
(d) Chaulmoogra oil

43. ..... Is needed for suspensions, lotions, emulsions, creams and ointments to keeps a high container consistency and yet pour and spread easily when needed. It also is satisfactory for IM slow release yet easy to inject
(a) Thinxotropy
(b) Rheopecty
(c) Rheology
(d) Newtonian flow

44. The enzyme superoxide dismutase (SOD) converts
(a) O_2-to hydrogen peroxide (H_2O_2)
(b) Hydrogen peroxide (H_2O_2) to H_2O
(c) H_2O to hydroxyl (OH) redicals
(d) O_2- toO_2

45. For first order reactions the rate constant, k, has the units as.....
(a) Ms^{-1}
(b) $M^{-1}\ s^{-1}$
(c) $M^{-2}\ s^{-1}$
(d) s^{-1}

46. Which of the following may be used to assess the relative bioavailability of two chemically equivalent drug product in a crossover study
(a) Dissolution test
(b) Peak concentration
(c) Time-to-peak concentration
(d) Area under the plasma level time curve

47. A 25.0 mL sample of a solution of a monoprotic acid is titrated with a 0.115 M NaOH solution the titration curve shows equivalence point at 7.05. which of the following indicators would be best for this titration
(a) Methyl red
(b) Bromthymol blue
(c) Thymol blue
(d) Phenopltalein

48. Which of the following in termed as mass filter
(a) Time of flight
(b) Farady cup
(c) Quadupole
(d) Ion trap

49. Which of the following is produced in phenyl propanoid pathway
(a) PHenolics
(b) Catotenes
(c) Alkaloids
(d) Terpenes

50. A diode array detector coupled with UV detection is advantageous because it
(a) Covers a range of wavelengths
(b) Allow lower concentrations of analyte to be detected
(c) Speeds up the detection at a single wavelength
(d) Allows a single wavelength of detection to be moreprecisely chosen

51. The LOD of an analysis is at the femtogram level. This corresponds to detection at the
(a) 1 in 10^{-18} level
(b) 1 in 10^{-15} level
(c) 1 in 10^{-12} level
(d) 1 in 10^{-9} level

52. Which are those therapeutic systems, which liberate the active ingredient through a special hole, prepared by laser

(a) TTS patches (b) IUD systems (c) OCUSERT systems (d) OROS systems

53. Which of following chromatographic technique is most suitable for small, nonvolatile water-insoluble solutes

(a) GC (b) Reverse phase LC
(c) Normal phase LC (d) SEC

54. Which of the following antiviral agent in not a nucleoside analog

(a) Moroxidin (b) Vidarabine
(c) Cytarabine (d) Idoxuridine

55. Regarding two compartment pharmocokenitics all are true EXCEPT

(a) A drug is always removed from the peripheral compartment
(b) A drug with a high volume of distribution is likely to be lipophilic
(c) A drug can have a short duration of action while being eliminated very slowly
(d) Most anesthetic drugs are modelled well with a two-compartment model

56. Phenothiazine is obtained by.....with sulfur

(a) Cyclization of dibenzyl (b) Cyclization of diphenyl amine
(c) Reduction of diphenyl amine (d) Reduction of dibenzyl amine

57. Vitamin K is constituted of .....ring

(a) Hdroquinone (b) Nathphaquinone
(c) Lonone (d) Denzimidazole

58. To balace intellectual property protection, competition and access to affordable prescription drug, the act made by US government is

(a) Drug Price Competition act (b) Patent term Restroration act
(c) Hatch-Waxman act (d) Orphan Drug Act

59. Gridnard test is used for the detection of.....

(a) Falavonoids (b) S- gyycosides
(c) Cyanogenetic glycosides (d) O-glycosides

60. Which hormone works antagonistically to parathormone.....

(a) Triiodothyronine (b) Insulin (c) Estrogen (d) Calcitronin

61. Drugs that have been found to be useful in one or more types of heart failure include all of the following EXCEPT.....

(a) Na^+/K^+ ATPase inhibitors (b) α adrenoceptor agonitst
(c) β Adrenocepotor agonists and antagonists (d) ACE inhibitors

62. Which one of the following is used in the Ames test

(a) E. coli (b) Streptococcus aureus
(c) Pseudomonas aerogenosa (d) Salmonielia typhimurium

63. Which of the ultrashort acting adrenergic blocker

(a) Carvedilol (b) Atenolol (c) Esmolol (d) Acetutotol

64. Match the following biochemical transformations with coenzymes involved

(i) α –Ketoglutarate to glutamic acid
(ii) Uridine to thymidine
(iii) Pyruvid acid to acetyl coenzyme A

(a) Tetrahydrofalate
(b) NADH
(c) Thiamine pyrophosphate
(d) Pyridoxamine

(a) i-d, ii-a, iii-c (b) i-a, ii-b, iii-d
(c) i-b, ii-a, iii-c (d) i-d, ii-b, iii-c

65. Drugs that show nonlinear pharmacokinetics have which of the following property

(a) A constant ratio of drug metabolites is formed as the administered dose increase.
(b) The elimination half – life increasing as the administered dose increase
(c) The area under the plasma drug concentration versus time curve increasing in direct proportion to an increase in the administered dose.
(d) Both low and high doses follow first order elimination kinetics
(e) The steady state drug concentration increases in direct proportion to the dosing rate

66. Appropriate reasons for the deviation form the beer's law among the following are

(P) Mnonchromaticity of light
(Q) Very high concentration of analyte
(R) Association of analyte
(S) Dissociation of analyte

(a) P, Q AND R (b) Q, R, and S
(c) P, R and S (d) P, Q and S

67. An alternaive to glycolysis pathway is……..

(a) Glyoxylate pathway (b) Pentose phosphate pathway
(c) Citric acid cycle (d) Gluconeogenesis

68. LeChatelier's principle states that increasing temperature favors a reaction that…….

(a) Release energy as heat (b) Requires energy as heat
(c) Involves a chemical catalyst (d) Gluconeogenesis

69. In absorption spectrometry, high values of absorbance values (grater than 1 or 2) tend to give poorer precision because

(a) Too much light saturates the detector
(b) Little light reaches the detector
(c) Beer's law deviations are worse
(d) Monochromators work poorly under intense light

70. When the angle of repose exceeds…… , the powder flow is rarely acceptable for pharmaceutical manufacturing purpose

(a) 25 (b) 30 (c) 50 (d) 60

71. The chelate, EDTA4: can described as what type of chelating ligand
(a) Bidentate (b) Tetradentate (c) Hexadentate (d) Tridentafe

72. Living cells are negatively charged inside primarily because of.....
(a) ATP, organic acids, and other negative molecules that cannot escape
(b) Removal of sodium ions, which are positively charged, by the Na^+/K pump
(c) Extrusion of Ca2+ ion, which is much more concentrated outside a cell than inside
(d) Cell membranes that are more permeable to potassium than sodium

73. Which of the following drugs requires administration on an empty stomach
(a) Naproxen (b) Levothyroxine
(c) Prednisone (d) Nitrofurantoin

74. Which of the following is a non- aqueous binder
(a) Ethyl cellulose (b) Starch (c) Veegum (d) Bentonite

75. Which of the following drugs requires administration on an empty stomach
(a) Cannbichromene (b) Cannabinol
(c) Cannabidiol (d) Tetrahydorcannabinol

76. What is the osmolality of a solution if one mmole of glucose and two mmoles of NaCl are dissolved in 1 kg of the water
(a) 3 mOsm (b) 4 mOsm (c) 5 mOsm (d) 6 mOsm

77. How much can be the working revolution per minute (RPM) of the ball mill
(a) 23-28 "D where D means the diameter of jar
(b) Two times more than the critical revolution per minute
(c) 42.3 "D (D=diameter of the jar)
(d) The average of critical RPM and the optional RPM

78. A compound with an –OH group and –OR group bonded to the same carbon atom is.....
(a) An actal (b) A hemicacetal (c) A simple ether (d) An aldol

79. The reaction of Grignard reagent with aldehydes and ketones gives alcohols. This is known as .....
(a) NEcleophilic addition reaction (b) Necleophillic substitution reaction
(c) Electrophllic substitution reaction (d) Electrophilic addition reaction

80. Osazone is formed by reaction of ..... moles of phenylthdrazine with monosaccharide
(a) 1 (b) 2 (c) 3 (d) 4

81. If a sugar contains..... fuction, it is a reducing sugar
(a) Hemiacetal (b) Acetal (c) Aldehyde (d) Ketal

82. Adverse effect of cerivastatin is .....
(a) Higher risk of rhabdomyolysis (b) Anaphylaxis
(c) Hepatic disorder (d) Hemolytic anemia

83. Following emigration from blood vesels, leucocyte migration to the site of infection or injury in mediated by
(a) Bradykinin
(b) Chemokines and Complements C5a
(c) Histamine
(d) Prostaglandins

84. In adults, drugs are an important cause of Fanconi's syndrome. Drugs that cause Fanconi's Syndrome include which group below. Select One
(a) Antiretroviral agents, aminoglycosides, glucocorticoids
(b) Tenofovir, outdated tetracycline, cisplatin
(c) Cidofovir, galactose supplements, NSAIDs
(d) Cyclosporin, Tenofovir, lamivudine

85. Which of the following is a type of phytoestrogen
(a) F
(b) W
(c) G
(d) Y

86. Which aerosol particles will be deposited in alveoli
(a) >20 µm
(b) <0.6 µm
(c) 2 and 6 µm
(d) 1-2 µm

87. According to lipinskl's rule of 5 , which of the following properties of drug molecules are likely to cause poor oral absorption
(a) A molecular weight lesser than 500
(b) A log P less than 5
(c) Less than 5 hydrogen bond donors
(d) More than 10 hydrogen bond accepters

88. Polarographic method of analysis to obtain indivisual amonuts of Cu^{2+} and Cd^{2+} in a given mixture of the ions (Cu^{2+} and Cd^{2+}) is achieved by measuring their.....
(a) Half way potentials
(b) Migration currents
(c) Decomposition potentials
(d) Diffusion currents

89. The most widely used agent for the treatment of acute gout arthritis is.....
(a) Indemethacin
(b) Allopurinol
(c) Colchicine
(d) Probenecid

90. Which of the following actions of norepinephrine would be antagonized by prazosin but not by propranolol.
(a) Increased heart rate
(b) Mydriasis
(c) Relases of rennin
(d) Glycogenolysis

91. Arginine serves as a precursor for which of the vasodilatory product
(a) Bradykinin
(b) Atrial natriuretic peptide
(c) Nitrous oxide
(d) L- Citrulline

92. Which of the following is a test of digitoxose
(a) Keller Kiliani's
(b) Kedde's reagent
(c) Raymond's reagent
(d) Baljet's reagent

93. The Vd for phenytoin is 70 L and half life is 1.5 hours. What is the total clearance of phenytoin
(a) 34.32 L/h (b) 32.34 L/h
(c) 151.5 L/h (d) 51.51 L/h

94. Which of the following phytohormone usually acts as bud inhibitor
(a) Gibberlin (b) Ctyokinin (c) Zeatin (d) Indole Acetic acid

95. What is the main different between HPLC and UPLC
(a) HPLC is reverse-phase whereas UPLC in normal-phase
(b) UPLC employs smaller stationary-phase particle size
(c) HPLC and UPLC employ different mobile phase
(d) HPLC and UPLC employ different detection methods
(e) HPLC operates at higher mobile phase pressures

96. Which drug is associated with hepatic/ renal toxic metabolite, N-acetyl-pbenzoquione
(a) Diclofenac (b) Meclofenamate (c) Indomethacin (d) Acetaminophen

97. What is the percentage of chlorpromazine (pKa = 9.3) exiting in ionized form in a solution of chlorpromazine hydrochloride at pH 7.4
(a) 98.76 (b) 1.24 (c) 0.32 (d) 99.68

98. Which of the following is a GLP-1 agonist
(a) Sitagliptin (b) Pramiltide (c) Exenatide (d) Eparlrestat

99. What is mechanism of aprotinin
(a) Inhibits Corboxypeptidase (b) Inhibits Plasminogen
(c) Inhibits plasmin (d) Inhibits plasminogen activator

100. Absolute alcohol is prepared from spirit by.....
(a) Distillation (b) Azeotropic distillation
(c) Fractional distillation (c) All of the above

101. Which of the following is interleukin agonist
(a) Aldesleukin (b) Rituximab (c) Anakinra (d) Etarecept

102. An extension of the normal pharmacological effects of a drug or its metabolite is termed as .....
(a) Type A ADR (b) Type B ADR (c) Type C ADR (d) Type D ADR

103. Which of the following parameters is/are important in determining bioequivalence
(a) T_{max} (b) C_{max} (c) AUC and C_{max} (d) None of these

104. What are known as balsams
(a) Resins dissolved in volatile oil (b) A mixture of volatile oils with sesquiterpenes
(c) Solidified resin devoid of votatile terpenes (d) Polysaccharide mixed with volatile oil

105. Sesquiterpenes are formed from ..... In the plants
(a) Farnesyl-pyrophosphate (b) Geranyl farnesyl pyrophosphate
(c) Coloring material (d) Degraded products of trierpenes

106. Which of the following is a type of phytoestrogen

(a) Lutein
(b) Indoles
(c) Isothicotynates
(d) Genistein

107. Attachment of polyethylene glycol (PEG) to proteins/ drugs do all of the following EXCEPT

(a) Protect them form rapid hydrolysis or degradation
(b) Improves micromole solubility
(c) Increases absorption form the gut
(d) Minimizing the uptake by the cells of the reticuloendothelial systems

108. Identify the harmful drug-drug interaction

(a) Imipenem - Cilastatin
(b) L-Dopa-Entacapone
(c) Meperidine - Pargyline
(d) Methotrexate - leucovorin

109. Synthesis of thyroid hormone in inhibited by all EXCEPT.....

(a) Propyl thiouracil
(b) Methimazole
(c) Perchlorate
(d) Diatrazoate

110. Choose correct statement for PEGylation:

(a) Used to enhance In-vivo half-life of smaller Peptides and proteins
(b) Avoidance of Reticulo-endothelial (RES) clearance
(c) Reduce clearance rate through kidney
(d) All

111. Which of the following is a common herbal remedy for insomnia

(a) Milk thistle
(b) Echinacea
(c) Eucalyptus
(d) Valerian

112. In which category of in vitro in vivo correlation the mean in vitro dissolution time is compared either to the mean residence time of to the mean residence time or to the mean in vivo dissolution time

(a) A
(b) B
(c) C
(d) D

113. What does the Hammett substituent constant (σ) measure

(a) The steric effect of a substituent
(b) The electronic effect of a substituent
(c) The hydrophobic effect of a substituent
(d) The effect on pH of a substituent

114. Property exploited by electroanalytical technique of caoulemetry is.....

(a) Electric potential
(b) Electrical charge
(c) Elcectrical current
(d) Electrical resistance

115. All are true EXCEPT.....

(a) Soft soaps give emulsions with a pH in the basic range
(b) Hard soaps form water-in-oil emulsions
(c) Water-soluble polymers favor the formation of water-in-oil (w/o) emulsions
(d) On the HLB system, lower numbers are assigned to lipophilic compounds while higher numbers are assigned to hydrophilic compounds

116. In callus culture, roots can be induced by the supply of.....
(a) Auxin and no cytokinin
(b) Higher concentration of auxin and lower concertation of cytokinin
(c) Higher concentration of cytokinin and lower concentration of auxin
(d) Auxin and cytokiinin in equal proprotions

117. Prostaglandin used in the treatment of postpartum hemorrhage is.....
(a) Carboprost (b) Latanoprost (c) Bimatotprost (d) Travoprost

118. Identity 5HT3 receptor antagonist which is 5HT4 agonist also
(a) Metoclopramide (b) Cispride (c) Cilassetron (d) Graniseton

119. Which of the following AT-II receptor antagonists (SARTANs) does not possess tetrazole moiety in its structure
(a) Losartan (b) Irbesartan
(c) Telmisartan (d) Valsartan

120. What useful information can be found from a Van Deemter plot
(a) Optimum selectivity factor (b) Optimum mobile phase flow rate
(c) Optimum column temperature (d) The capacity factor

121. Brockman activity Scale' is used in the characterization of .....
(a) Stationary phase (b) Mobile Phase
(c) Buffer System used (d) Column specification

122. The FDA allows a maximum of ..... salicylic acid in commercial aspirin tablets
(a) 0.05 % (b) 0.1 % (c) 0.15% (d) 0.25 %

123. A phenolic acid compound isolated from the ripe fruits of myrobalan (karitaki).....
(a) Chebulic acid (b) Ferulic acid
(c) Emblicanin (d) Pivalic acid

124. Asafoetida _Nitric acid gives.....
(a) Reddish-brown colour (b) Green colour
(c) Yellowish-orange colour (d) Blue fluorescence

125. Endocrine effects of antipsychotic like chlorpromazine include all of the following EXCERT
(a) Decrease in adrencorticotrophins, Decrease in gonadotrophins
(b) Decrease in release of pituitary growth hormone
(c) Increase in prolactin secretion
(d) Decrease in thyroid hormone production

End of paper

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ANSWER KEY GPAT 2013

1-c	2-b	3-d	4-c	5-c	6-d	7-a	8-d	9-a	10-c
11-b	12-d	13-d	14-b	15-d	16-c	17-b	18-c	19-d	20-c
21-c	22-d	23-d	24-d	25-a	26-c	27-b	28-c	29-c	30-b
31-c	32-b	33-d	34-a	35-d	36-b	37-d	38-c	39-d	40-c
41-c	42-b	43-a	44-a	45-d	46-c	47-b	48-c	49-a	50-a
51-b	52-d	53-b	54-a	55-a	56-b	57-b	58-c	59-c	60-d
61-b	62-d	63-c	64-c	65-b	66-b	67-b	68-b	69-b	70-c
71-c	72-a	73-b	74-a	75-d	76-c	77-a	78-b	79-a	80-c
81-a	82-a	83-b	84-b	85-c	86-d	87-d	88-d	89-c	90-b
91-c	92-a	93-b	94-d	95-b	96-d	97-a	98-c	99-c	100-d
101-c	102-a	103-c	104-a	105-a	106-d	107-c	108-c	109-d	110-a
111-d	112-b	113-b	114-b	115-c	116-b	117-a	118-b	119-c	120-b
121-a	122-c	123-a	124-b	125-d					

GPAT QUESTIONS

1. _____, system does not have orifice to release the drug.
   (a) Elementary Osmotic Pump (b) L-OROS
   (c) Sandwich Osmotic Pump Tablet (d) Controlled Porosity Osmotic Pump Tablet
2. In which rearrangement reaction, Isocyanate is formed?
   (a) Curtious (b) Lossen (c) Both A & B (d) None
3. Chitin gets converted in to Chitosan upon:
   (a) Acetylation (b) Deacetylation (c) Oxidation (d) Reduction
4. All of the following are leaf constants EXCEPT
   (a) Vein-islet number (b) Vein- termination number
   (c) Stomatal number (d) Leaf fiber
5. Zink chloride is added to mouth wash because it acts as
   (a) Fragrance (b) Astringent (c) Cooling agent (d) Antibacterial
6. The choice of route of administration plays an important role in action of directly acting cholinomimetic . Adverse effect of choline esters that may be avoided by selection of an appropriate route of administration is
   (a) Bradycardia (b) Hypotension (c) Delirium (d) Sweating
7. Sieve size 80 has opening of
   (a) 0.100 mm (b) 0.125 mm (c) 0.150 mm (d) 0.180 mm
8. The ideal saponification value for suppository base is
   (a) 50-100 (b) 100-150 (c) 150-200 (c) 200-500
9. o, m, p- isomers can be differentiated on the basis of:
   (a) Chemical shift (b) Coupling constant
   (c) Extinction coefficient (d) Dipole moment
10. Which of the following drug comes under Schedule C_1
    (a) Opium (b) Ergot (c) Fish liver oil (d) Insulin
11. Source of amla is
    (a) Phyllanthus inruri (b) Terminiliachebula
    (c) Terminalia Bacteria (d) Embilca officinalis

12. What is the unit of dielectric constant

(a) Dyne (b) Debey (c) Farad/meter (d) No Unit

13. Monitoring of plasma drug concentration is required while using:

(a) Antihypertensive drugs (b) Levodopa

(c) Lithium carbonate (d) MAO inhibitors

14. Of the following antibiotics, which one would be acceptable to use when treating penicillin resistant S. pnumoinae otitis media

(a) Azithromycin (b) Clarithromycin (c) Cefuroxime (d) Cefaclor

15. Addtion of which of the following to a large volume parntral product is not advised

(a) Active pharmaceutical ingredient (b) Preservatives

(c) Buffering agens (d) Tonicity adjusters

16. A drug suspension decomposes by zero-order kinetics with a rate constant of 2 mg mL^{-1} $month^{-1}$ if the initial concentration is 100 mg mL^{-1} what is the shelf life

(a) 2 months (b) 3 months (c) 4 months (d) 5 months

17. Sanguinarine belongs to the subgroup of:

(a) Morphinans (b) Benzyl isoquinolines

(c) Phthalide isoquinolines (d) Benzophenanthrenes

18. Antidote for paracetamol overdosing is

(a) Atropine (b) N- Acetly cysteine (c) Glutathione (d) Theophylline

19. Which one of the following drug combination is contraindicated

(a) Glyceryl trinitrate and sildenafil (b) Amoxicillin and clavulanic acid

(c) Losartan and hydrochlorothiazide (d) Pyrimthemaine and sulfadoxine

20. Which sugar is suitable for diabetic patient

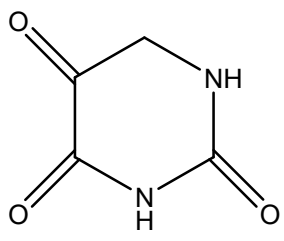
(a) Fructose (b) Lactose (c) Mannitol (d) Sucralose

21. Headquarter of Bureau of Indian standards is situated at

(a) New delhi (b) Mumbai (c) Kolkata (d) Chennai

22. Identity the structure of barbituric acid

(a)



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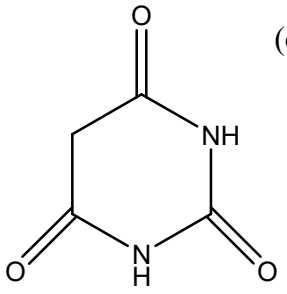

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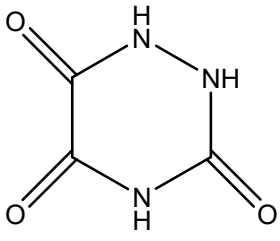
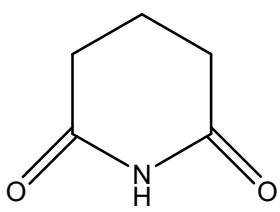


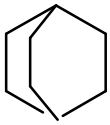
(d)



23. Ehtics for pharmacist are put forth by

(a) PCI (b) CDSCO (c) AICTE (d) WHO

24. What is the IUPAC name of the following compound



(a) Bicyclo[2.2.2] octane
(b) Tricyclo[2.2.2] ontane
(c) Bicyclo[2.2.0] ontane
(d) Bicyclo [2.2.1] heptanes

25. Morphine does not cause:

(a) Constriction of pupil
(b) CNS depression
(c) Respiratory depression
(d) Diarrhoea

26. Which of the following is seed gum

(P) Gaur gum
(Q) Locust bean gum
(R) Xanthan gum
(S) Gellan gum

(a) P and Q
(b) R and S
(c) Q and R
(d) P and S

27. The cancer that derived form ectoderm of endoderm of epithelial cells is

(a) Carcinoma (b) Sarcoma (c) Leukaemia (d) Myloid

28. Which of the following is/are marine anticancer

(a) Trabectadine
(b) Eribulin
(c) Cytarabine
(d) All of the above

29. Identity the compound which is derived form typtophan

(a) Pilocarpine (b) Ephedrine (c) Muscarine (d) Quinoline

30. Opium, cocoa, poppy straw are given in

(a) Schedule H
(b) Schedule X
(c) Narcotic drugs and Psychotropic substances act 1998
(d) Schedule C

31. Which of the following will be inert in NMR spectrometry

(a) 13C (b) 31P (c) 2H (d) 1H

32. What is the relationship between keto and enol tautomers

(a) Resonance forms
(b) Steriosomers
(c) Constituonal isomers
(d) Different conformations of the same compound

33. Which of the following is following is true for natural killer cells
(a) They may phagocytose tumor cells
(b) Killing of cells is enhanced by interleukin-2
(c) They recognize and kill some virus-infected cells
(d) Killing of cells is stimulated by prostaglandin E2

34. Evaluation of colour is tablets is done by
(a) Reflectance spectrophotometer
(b) Tristimulus colorimeter
(c) Microreflectance photometer
(d) All of the above

35. The disintegration time of the effervescent tablets is
(a) 2 minutes (b) 2.4 minutes (c) 3.5 minutes (d) 5 minutes

36. Identify the false statements about magmas:
(P) The addition of suspending agents to magmas is always necessary
(Q) Magmas differ from gels in that their suspended particles are larger
(R) Magmas are two- phase systems
(S) Magmas basically are gets
(a) P and Q (b) Q and R (c) Only P (d) Only S

37. All of the following ACE inhibitors are prodrugs EXCEPT
(a) Ramipril (b) Lisinopril (c) Enalapril (d) Perindopril

38. All of the following is resistant to both true and pseudo cholinesterase enzymes
(a) Carbachol
(b) Acetylcholine
(c) Methacholine
(d) Pilocarpine

39. Globule size of parenteral emulsion should be
(a) 0.1 to 0.5 µm (b) 0.5-5 µm (c) 5-10 µm (d) Any of the above

40. The objective of audit is to
(a) Improve the product quality
(b) Find out the fault
(c) Improve the product value
(d) Find and process fault and to improve

41. ..... is an alkaloid derived form aliphatic amino acid
(a) Reserpine (b) Nicotinic acid (c) Anabasine (d) Vinblastine

42. The drug sulphan blue is obtained from .....source
(a) Plant (b) Animal (c) Synthetic (d) Mineral

43. In mammals, The major fat in adipose tissue is:
(a) Triglyceride
(b) Cholesterol
(c) Sphingophospholipids
(d) Phospholipids

44. Dovers powder used as a diaphoretic contains:

(a) Ipecac & Opium
(b) Ipecac, Senna & Cinchona
(c) Opium, Ipecac & Cinchona
(d) All

45. Biological active form of Vit. D in man is:

(a) Cholecalciferol
(b) Calcifediol
(c) Calciferol
(d) Calcitriol

46. Actions and clinical uses of muscarinic cholinoceptor agonists include which on of the following

(a) Bronchodilation (asthama)
(b) Improved aqueous humor drainage (glaucoma)
(c) Decreased gastrointestinal motility (diarrhea)
(d) Decreased neuromuscular transmission and relaxation of skeletal muscle (During surgical anesthesia)

47. Regarding the role of surfactants in pharmaceutical suspensions for oral administration which of the following statements is false

(a) Surfactants decrease the water contact angle of dispersed drug particle
(b) Surfactants promote flocculation
(c) Surfactants with high HLB stabilize oral suspensions
(d) Surfactants increase the viscosity of the continuous phase of pharmaceutical suspensions

48. Which of the following drug is NOT used in treatment of H. Pylori infection

(a) Ampicillin
(b) Clarithromycin
(c) Mosapride
(d) Bismuth subgallate

49. The most suitable disinfectant for decontamination of HIV contaminated endoscope is

(a) 1% Sodium hypochlorite
(b) 2% Glutaraldehyde
(c) 5% phenol
(d) 70% ethanol

50. Which rule does provide the most accurate method to calculate the dose for child based on adult dose

(a) Age is months
(b) Age in years
(c) Weight in pounds
(d) Body surface area

51. Chemokine co-receptor 5 (CCR 5) inhibitor is

(a) Enfuvirtide
(b) Maraviroc
(c) Raltegravir
(d) Atazanavir

52. The Franz diffusion cell which is used for the evaluation of transdermal drug delivery systems consists of:

(a) 1 chamber (b) 2 chamber (c) 3 chamber (d) None

53. Whick of the following plastic is transparent and flexible

(a) Silicon rubber (b) PVP (c) HDPED (d) PE

54. In which method an order of a fixed number of items is placed every time an inventory level falls to a predetermined point

(a) A-B-C method
(b) Maximum and minimum method
(c) Open-to-buy method
(d) Economic order quantity

55. Choose the option with two reducing sugars

(a) Lactose and maltose
(b) Trehalose and surcrose
(c) Maltose and tredhalose
(d) Economic order quantity

56. The Local anesthetic with highest cardiotoxicity is

(a) Lingocaine
(b) Bupivacaine
(c) Levo- bupivacaine
(d) Procaine

57. Homatropine is

(a) Tropine ester of amino acetic acid
(b) Tropine ester of mendelic acid
(c) Tropine methyl bromide ester of mendelic acid
(d) Tropine ester of amino formic acid

58. Tranexamic acid is

(a) Antithrombotic (b) Antifibrinolytic (c) Fibrinolytic (d) Styptic

59. Which of the antihistaminic compound has antiadrogenic effect

(a) Famotidine
(b) Ranitidine
(c) Nizatidine
(d) Cimetidine

60. Which of the following drug is used prefenntially as preanesthetic mediation

(a) Midazolam
(b) Oxazepam
(c) Alprazolam
(d) Nitrozepam

61. Proton pump inhibitors are most effective when given

(a) Half hour before meals
(b) With meal
(c) After prolonged fasting
(d) Along with H2 blockers

62. Match compounds is Group I with inhibitory activities in Group II

Group I	Group II
(P) Vancomycin	(1) Folate metabolism
(Q) Rifampin	(2) DNA synthesis
(R) Puromycin	(3) Protein synthesis
(S) Ciprofloxacin	(4) RNA synthesis
	(5) Cell wall systhesis

(a) P-5, Q-4, R-3, S-2
(b) P-4, Q-3, R-1, S-2
(c) P-4, Q-1, R-3, S-2
(d) P-5, Q-3, R-2, S-4

63. Formation of Okazaki occurs in

(a) Transcription (b) Replication

(c) Translation (d) Reverse Transcription

64. Drug used in ventricular arrhythmia is

(a) Flecainide (b) Verapamil

(c) Esmolol (d) Diltazem

65. The lipoprotein with the fastest electrophoretic mobility and the lowest TG content is

(a) VLDL (b) HDL

(c) LDL (d) Chylomicrons

66. As per schedule 'Y' of the drugs and cosmetics act, the animal toxicity study requirements for marketing of a drug depends upon tentative route and duration of administration in humans. In This context , which one of the following statements is incorrect

(a) Single dose human use-animal toxicity for 2 weeks in 2 species

(b) Oral use for 2 weeks in humans- animal toxicity for 4 week in 2 species

(c) Aerosol use by repeated use in humans- animal toxicity for 24 weeks in 2 species

(d) Multiple daily ocular application for short duration-iregation test in 1 species for 3 weeks

67. For determining the efficacy of sterilization in an autoclave, the spores of the following organism are used as test organisms

(a) Bacillus cereus (b) Clostridium pefringens

(c) Bacillus stearothemophilus (d) Clostridium histolyticum

68. Which of the following pairs is mismatched

(a) Aerobic, helical bacteria- gram negative (b) Entrics- gram negative

(c) Myconbacteria – acid fase (d) Pseudomonas –gram positive

69. List of drugs whose import, manufacture and sale, labeling and packaging are governed by special provisions are included in schedule:

(a) X (b) K (c) H (d) G

70. Sigma minus method is used in assessment of

(a) Bioavailability (b) Absorption

(c) Metabolism (d) Tissue distribuation

71. Which of the plant family contains volatile oil in their trichome

(a) Rutaceae (b) Papaveracease

(c) Umbelliferare (d) Laminaceae

72. Ferritin is:

(a) Coenzyme
(b) The stored form of Iron
(c) Non-protein moiety
(d) Isoenzyme

73. Which oil is solute is alcohol

(a) Arachis oil
(b) Sesame oil
(c) Castor oil
(d) Corn oil

74. One of the first step of the citric acid cycle is isomerization of citric acid to isoctiric acid this step is necessary because

(a) Oxidation of secondary alcohols is very difficult
(b) Reduction of secondary alcohol is very impossible
(c) Reduction of tertiary alcohols would require a very powerful oxidizing agent
(d) Oxidation of tertiary alcohols would require oxidizing agents

75. Which of the following alkyl halides would undergo SN2 reaction most rapidly

(a) CH_3CH_2-BR
(b) CH_3CH_2-CL
(c) CH_3CH_2-I
(d) CH_3CH_2-F

76. Mechanism of action of Ketoconazole is:

(a) Inhibits Ergosterol synthesis
(b) Inhibits DNA gyrase
(c) Inhibits dihydropteroate synthetase
(d) Induces translation misreading

77. All are adrenal gland over activity disorders EXCEPT

(a) Addison's disease
(b) Conn's syndrome
(c) Cushing's syndrome
(d) Cushing's disease

78. The oil used in a parenteral product cannot contain.....

(a) WFI
(b) Parffin oil
(c) Peanut oil
(d) Glycerine

79. Identity the non-absorbable sature

(a) Catgut suture
(b) Chromic catgut suture
(c) Silk suture
(d) Polydioxanone suture

80. The relative lowering of vapour pressure is given by

(a) Raoult's law
(b) Henry's law
(c) Boyle's law
(d) Charles law

81. Identity the functional group present in meprobamate

(a) Amide
(b) Ester
(c) Carbamic
(d) Lactam

82. Match the following

(P) Gypsum salt
(1) $KAI(SO_4)_2 \cdot 12H_2O$
(Q) Epson salt
(2) $FeSO_4 \cdot 7H_2O$

(R) Alum
(S) Green vitriol
(3) $CaSO_4 \cdot 2H_2O$
(4) $MgSO_4 \cdot 7H_2O$

(a) P-1, Q-2, R-4, S-3
(b) P-3, Q-4, R-1, S-2
(c) P-4, Q-3, R-1, S-2
(d) P-2, Q-4, R-1, S-3

83. Tinea capitis is ringworm infection of

(a) Feet (b) Groin (c) Head (d) Nails

84. Rank the following compounds is order of increasing reactivity in electrophilic aromatic Substitution reactions

(P) C_6H_6 (Q) $C_6H_5CH_3$ (R) $C_6H_5NO_2$

(a) Q<P<R (b) R<P<Q (c) Q<R<P (d) P<Q<R

85. Dose dumping may be a general problem in the formulation of:

(a) Soft gelatin capsules
(b) Suppositories
(c) Modified release drug products
(d) None

86. Codeine differ in structure from morphine by:

(a) N-methyl group
(b) Acetyl group at C1 and C6
(c) –OC2H5 group
(d) –OCH3 group

87. Isotopes differ in:

(a) The number of protons
(b) The valency number
(c) The chemical activity
(d) The number of neutrons

88. Arrange the given acids in increasing order as per the number of carbons present in them

(P) Capric (Q) Caprylic (R) Caproic (D) Lauric

(a) P<Q<R<S
(b) R<Q<P<S
(c) R<Q<P<S
(d) Q<P<R<S

89. E1cb (Elimination reaction via conjugate base) which reaction intermediate will form?

(a) Carbocation
(b) Carbanion
(c) Free radical
(d) All

90. What are the three basic steps of conventional PCR

(a) Denature, anneal, & Strand displacement
(b) Denature, anneal & extension
(c) Strand displacement, synthesis & release
(d) Reverse-Transcription, anneal & extend

91. Rabies bodies are

(a) Negri bodies
(b) Cowdry type B inclusion bodies
(c) Cowdry type A inclusion bodies
(d) Bollinge bodies

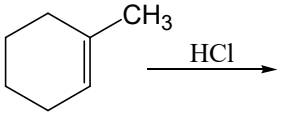
92. When glucose reacts with bromine water, the main product is

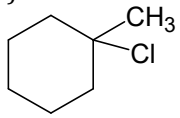
(a) Glucaric acid (b) Glucoronic acid (c) Sorbitols (d) Gluconic acid

93. Increase in melting temperature of DNA is due to high content of

(a) A+T (b) G+C (c) A+G (d) T+G

94. What will be the primary product of the following reaction



(a)


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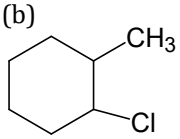

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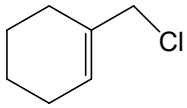

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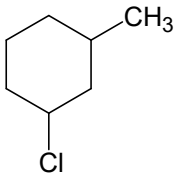


95. The mass spectrum of a compound with an approximate MW 137 shows tow equally intense. peaks at m/z 136 and 138. What does the suggest

(a) The compound is alkyl iodide (b) The compound is alkyl bromide
(c) The compound is alkyl chloride (d) The compound is aryl fluoride

96. Capping in tablets mainly due to:

(a) Less upper punch pressure (b) Poor flowability of granules
(c) Proper formulation design (d) Entrapment of air in tablet during compression

97. How can we detect the rhizome from the root of the Rauwolfia?

(a) By the presence of small central pith (b) By the absence of small central pith
(c) By the presence of vascular bundle (d) None

98. Drug of choice to treat H1N1 influenza is

(a) Adefovir (b) Cidofovir
(c) Oseltamivir (d) Tenofovir

99. Identify the correct statement

(P) Condensed tannins are polymers flavans
(Q) Condensed tannins do not contain sugar redidues
(R) Hydrolyzabletannis are polymers of gallic acid or ellagic acids
(S) Gallic acid and catechin are psedotannins

(a) Only Q (b) P and Q
(c) P, Q and R (d) P, Q, R and S

100. Quick breaking aerosols are applicable:

(a) Orally (b) Parenterally (c) Topically (d) Ophthalmically

101. In the Reimer-Tiemann reaction…… Reacts with phenol to give the ortho-formylated product

(a) Carbene
(b) Carbocation
(c) Carbanion
(d) Free redical

102. Which of the following in not added to chewing tablet

(a) Gildant
(b) Disintegrant
(c) Lubricant
(d) Anitadhesive

103. Range of C=O stretching in enol is

(a) 1800 cm^{-1}
(b) 1710 cm^{-1}
(c) 1685 cm^{-1}
(d) 1655 cm^{-1}

104. Match the following phytochemicals with their source and use

(P) Shatavrin — (1) Buckwheat and citrus fruits, strengthens capillary walls
(Q) Resvertatrol — (2) Broccoli and cabbage, protects against bladder cancer
(R) Glucosinolates — (3) Purple grape, anti inflammatory, anticancer
(S) Rutin — (4) Asparagus, galactogogue

(a) P-4, Q-3, R-2, S-1
(b) P-4, Q-2, R-3, S-1
(c) P-3, Q-1, R-4, S-2
(d) P-2, Q-3, R-4, S-1

105. Which RNA polymerase is the only whose product are capped

(a) RNA polymerase I
(b) RNA polymerase II
(c) RNA polymerase III
(d) RNA pimase

106. Match the scientist awarded with Nobel prize with their contributions

(P) Alexander Fleming — (1) GPCR
(Q) Kobilka — (2) β-blocker
(R) Banting — (3) Penicillin
(S) Black — (4) Insulin

(a) P-4, Q-3, R-2, S-1
(b) P-4, Q-2, R-3, S-1
(c) P-3, Q-1, R-4, S-2
(d) P-2, Q-3, R-4, S-1

107. Mean arterial pressure is

(a) Systolic pressure – Diastolic Pressure
(b) (Diastolic pressure + Diastolic Prssure)/2
(c) Diastotic alcohol + (1/3) × pulse pressure
(d) Stroke valume X heart rate

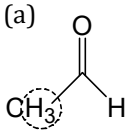
108. Eugenol is

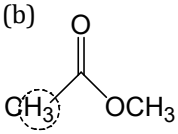
(a) Monoterpene alcohol
(b) Sesquiterpene alcohol
(c) Aliphatic alcohol
(d) Phenylpropene

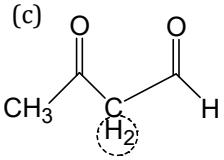
109. The Vitamin required for carboxylation of pyruvate to form oxaloacetate is

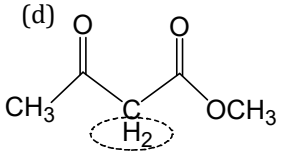
(a) Thiamine (b) Biotin (c) Pyridoxine (d) Niacin

110. Which of the following circled hydrogen is most acidic

(a) 

(b) 

(c) 

(d) 

111. The drug formulated as suspension follows ..... order reaction

(a) Zero (b) Pseudo Zero

(c) First (d) Pseudo first

112. Which diuretic causes decrease in release of insulin

(a) Chlorothiazide (b) Ethacynic zero

(c) Triamterene (d) Acetazolamide

113. Match the following drugs with their mode of action

(P) Methotrexate (1) Mitotic inhibitor

(Q) Cyclophosphamide (2) Antimetabolite

(R) Vincristine (3) Alkylating agent

(S) Dactinomycin (4) Intercalating agent

(a) P-4, Q-3, R-2, S-1 (b) P-2, Q-4, R-1, S-3

(c) P-3, Q-1, R-4, S-2 (d) P-2, Q-3, R-1, S-4

114. Which compound would be expected to show intense IR absorption at 3300 cm^{-1}

(a) $CH_3CH_2CH_2CH_3$ (b) $CH_3CH_2C{=}CH$

(c) $CH_3C{=}CCH_3$ (d) $CH_2CHCH_2CH_3$

115. In the carbon NMR, in what region of the spectrum does one typically observe carbons which are part of the aromatic ring

(a) -10-0 ppm (b) 40-60 ppm

(c) 80-100 ppm (d) 120-150 ppm

116. Meclofenamate belongs to which class of drug

(a) Slicylates (b) Oxicams

(c) Aryl antaranillic acid (d) p-Amino phenols

117. Match the following crude with their chemical constituents

(P) Aloe (1) Hesperidine

(Q) Ginger (2) Palmitin

(R) Lemon peel (3) Barbaloin

(S) Olive oil

(4) Allin

(a) P-4, Q-3, R-2, S-1

(b) P-3, Q-4, R-2, S-1

(c) P-3, Q-4, R-1, S-2

(d) P-3, Q-1, R-1, S-4

118. Dopamine agonists with tetralene function

(a) Ropinorole

(b) Pirebidil

(c) Pramipixole

(d) Rotigotine

119. The IUPAC name of the compound-$(CH_3)_2CHCH_2Cl$:

(a) 2-methyl-3-chloropropane

(b) 1-chloro-3-mehtyl butane

(c) 1-chloropentane

(d) 2-mehtyl-4-chlorobutane

120. A powerful inhibitor of stomatal opening is

(a) Auxin

(b) Bytokinin

(c) Gibberellin

(d) Abscisic acid

121. What is the renal clearance of a substance, if its concentration in plasma is 10mg, concentration in urine is 100 mg and urine flow is 2 ml/min

(a) 0.02 ml/min

(b) 0.2 ml/min

(c) 2ml/min

(d) 20 ml/min

122. Aim of pharmacovigilance is

(a) To monitor drug toxicity

(b) To monitor unauthorized drug manufacture

(c) To monitor rational use of drugs

(d) To check and control drug costs

123. Phase zero studies is a/an

(P) Exploratory investigational new drug study

(Q) Human microdosingstudies

(R) Step to speed up drug discovery/ development process

(S) Mandatory by FDA

(a) P and Q (b) Q and R (c) P, Q and R (d) P, Q, R and S

124. Parenteral product must be:

(a) Packed in bottle

(b) Sterilized

(c) Free from viable/living organism

(d) Pyrogenic

125. Quinine present in highest amount in:

(a) C. calisaya (b) C. officinalis (c) C. ledgeriana (d) C. succirubra

End of paper

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ANSWER KEY GPAT 2014

1-d	2-c	3-b	4-d	5-b	6-b	7-d	8-c	9-b	10-c
11-d	12-d	13-c	14-c	15-b	16-d	17-b	18-b	19-a	20-d
21-a	22-b	23-a	24-a	25-d	26-a	27-a	28-d	29-b	30-b
31-c	32-c	33-c	34-d	35-d	36-c	37-b	38-a	39-a	40-d
41-c	42-c	43-a	44-a	45-d	46-b	47-d	48-c	49-b	50-d
51-b	52-b	53-d	54-d	55-a	56-b	57-b	58-b	59-d	60-a
61-a	62-a	63-b	64-a	65-b	66-d	67-c	68-d	69-a	70-a
71-d	72-b	73-c	74-d	75-c	76-a	77-b	78-b	79-c	80-a
81-c	82-b	83-c	84-a	85-c	86-d	87-d	88-b	89-b	90-b
91-a	92-d	93-d	94-c	95-b	96-d	97-a	98-c	99-d	100-c
101-a	102-b	103-d	104-a	105-b	106-c	107-c	108-d	109-b	110-c
111-a	112-b	113-d	114-b	115-d	116-c	117-c	118-d	119-a	120-d
121-d	122-a	123-c	124-b	125-c					

GPAT QUESTIONS

1. Which type of alkaloid is present in Vinca?

   (a) Ergot (b) Tropane (c) Indole (d) Quinoline

2. What is the biological source of Alexandrian Senna

   (a) Cassia aungustifolia (b) Cassia acutifolia

   (c) Cassia Bravifolia (d) Cassia Nerifolia

3. In the following drug find out the Potassium Sparing Diuretics

   (a) Milrinone (b) Thiazide (c) Spironolactone (d) Amilioride

4. How the wetting agent act in the suspension

   (a) Increase contact angle between substance and solvent

   (b) Reduce contact angle between substance and solvent

   (c) No change in contact angle between substance and solvent

   (d) None of the above

5. Which phase of suspension is reversible phase

   (a) Cracking (b) Creaming (c) Phase Inversion (d) Coalscence

6. Which eye infection is also called as 'Pink Eye' infection

   (a) Fungal keratitis (b) Viral keratitis (c) Conjunctivitis (d) Myopia

7. Match compounds with the pathway they inhibit

   (1) Vancoycin (P) Folate metabolism

   (2) Rifampin (Q) DNA synthesis

   (3) Puromycin (R) Protein synthesis

   (4) Ciprofloxacin (S) RNA synthesis

   (T) Cell wall synthesis

   (a) 1-T, 2-S, 3-R, 4-Q (b) 1-R, 2-S, 3-T, 4-P (c) 1-Q, 2-R, 3-T, 4-Q (d) 1-T, 2-Q, 3-P, 4-S

8. The given reaction in an example of

   (a) Arndt-Eistert homologation (b) Mannich reaction

   (c) Michael addition (d) Chichibabin amination reaction

9. What is the 6-methyl derivative of erythromycin

(a) Azithromycin (b) Roxithromycin (c) Clarithromycin (d) Clindamycin

10. In the diagnosis of myasthenia gravis, only one of the following drugs will be used as a drug of choice

(a) Neostigmine (b) Pyridostigmine (c) Physostigmine (d) Edrophoinum

11. Methyl [5(proopylthio)-1H-benzoimidazol-2yl] carbamate is Geneva name of which of the following drug

(a) Mebendazole (b) Albendazole (c) Thibendazole (d) Triclabendazole

12. Which of the following is oil of fruit pulp

(a) Arachis oil (b) Castor oil (c) Olive oil (d) Apricot oil

13. What is true about bioavailability

(a) Amount of unbound drug (Free drug reaching systemic circulation)

(b) Amount of bound Drug

(c) Amount of metabolite drug

(d) Amount of Excreted Drug

14. Polymorphs in pharmaceutical solids are detected by which technique

(a) MS (b) LC-MS (c) Solid state NMR (d) Coulter counter

15. A series of α - acylureido penicillin's like azlocillin, mezloacillin, and piperacillin are superior because of

(a) Reduced acid hydrolysis (b) Increased β - lactmase resistance

(c) Improved penetration through the cell envelop (d) Slow rate of metabolism

16. Bacillus subtilis is used in assay of which antibiotics

(a) Penicillin (b) Cephalosporin (c) Vancomycin (d) Streptomycin

17. Which of the following titrations will always have an equivalence point at a pH > 7.00

(a) Weak acid with a weak base (b) Strong acid with a weak base

(c) Weak acid with a strong base (d) None of the above

18. Inadequate drying during coating of tablet leads to which coating defect

(a) Chipping (b) Lamination (c) Mottling (d) Lamination

19. Match the crude drug with its biological source

(1) Pale catechu	(P) Conium naculatum
(2) Clove	(Q) Cymapsistetragonoloba
(3) Gaur bean	(R) Uncariagambir
(4) Hemlock	(S) Syzygiumaromaticum

(a) 1-Q, 2-P, 3-S, 4-R (b) 1-Q, 2-S, 3-R, 4-P (c) 1-R, 2-S, 3-Q, 4-P (d) 1-R, 2-S, 3-P, 4-Q

20. Which of the following plot indicates the effects of antagonist on receptors

(a) Michaelis-Menten plots (b) Line weaver burk Plots

(c) Displacement plots (d) Schild plots

21. All of the following statements concerning zero-order degradation are true except
(a) Its rate is independent of the concentration
(b) A plot of con Vs time gives a straight line on reactilinear paper and a slope is a rate constant
(c) Its half-life is a changing parameter
(d) Its concentration remains unchanged with respectto time

22. The liquefaction time of cocoa butter of hydrogenated vegetable oil based suppositories is
(a) 30-50 min
(b) 30-40 min
(c) 11-17 min
(d) 3-7 min

23. Which of the following is most likely to undergo lysis
(a) A cell losing water from its cytoplasm
(b) A cell with inact, multilayer peptidoglycan cell wall
(c) A cell with disturbed pentaglycine bridges in its cell wall
(d) A cell a hydrophilic outermost layer in its cell wall

24. Match the drugs with the disease for which it is prescribed
(1) Bedaquline
(2) Sitagliptin
(3) Mexilitine
(4) Paraoxitine
(P) Anitdiabetic
(Q) Anitiarrrhythmic
(R) Antidipressant
(S) Antituberualr
(a) 1-S, 2-P, 3-Q, 4-R
(b) 1-S, 2-P, 3-Q, 4-R
(c) 1-Q, 2-P, 3-R, 4-S
(d) 1-R, 2-S, 3-P, 4-Q

25. Which micro-organism used in hairy root culture
(a) Agrobact rhiaogens
(b) A. tumefaciens
(c) N. tabacum
(d) Solanum chrysotrichum

26. Delayed disintegration in tablet is a result of
(a) Large force of compression
(b) Small force of compression
(c) Higher amount of granule
(d) Low amount of granule

27. Match drugs with their receptor that they inhibit
(1) $5HT_{1A}$ agonist
(2) $5HT_3$ antagonist
(3) $5HT_{2A}$ antagonist
(4) $5HT_4$ agonist
(P) Cisapride
(Q) Ketanserine
(R) Ondensetron
(S) Buspiron
(a) 1-S, 2-R, 3-Q,4-P
(b) 1-R, 2-S, 3-T, 4-P
(c) 1-Q, 2-R, 3-T, 4-Q
(d) 1-T, 2-Q, 3-P, 4-S

28. Passive immunity in new born babies is due to

(a) IgG (b) IgM (c) IgE (d) IgA

29. Upper consolute temperature and lower consolute temperature are related to

(a) CMC temp
(b) Kraft Temp
(c) Cloud temp
(d) Absolute temp

30. Compact size, low weight mass instrument is:

(a) EI-TOF
(b) MALDI-Quadrapole
(c) MALDI-TOF
(d) Ion-Trap

31. A Pharmaceutical company plans to market a generic version of a drug produce whose patent has expired has expire (d) Which type of documentation must be submitted to the FDA

(a) IND
(b) NDA
(c) ANDA
(d) SNDA & Letter of intent

32. Which of the following does not produce azeotropic mixture with water

(a) Methanol
(b) Ethanol
(c) Propanol
(d) Isopropanol

33. For a particular durg, the rate of absorption but not the extent of the absorption of GIT, is affected by presence of food in GIT then taking the drug with food will result in

(a) Smaller area under the plasma drug concentration time curve
(b) Smaller maximal plasma drug concentration
(c) Smaller time at which the maximal plasma drug concentration occurs
(d) Smaller fractional bioavailability and total clearance

34. According to USP Alcohol contains

(a) 94.9 to 96% Ethanol
(b) 94.9 to 96% Methanol
(c) 50% Ethanol
(d) 50% Methanol

35. What does in mean that a cell is polyploid

(a) That is contains more than 2 copies of one or a few of its of chromosomes
(b) That is contains more than 2 copies of a full set of homologous chromosomes
(c) That is contains more than 2 copies of its sex chromosome
(d) That is contains more than 2 copies of its autosomal chromosomes

36. Amount of dextrose in large volume infusion fluids

(a) 5% w/v
(b) 10% w/v
(c) 25% w/v
(d) 50% w/v

37. _____, Anthelmintics having Immunosuppressant activity.

(a) Piperazine (b) Levamisole (c) Ivermectin (d) Niclosamide

38. Choose correct statement for PEGylation:

(A) Used to enhance In-vivo half-life of smaller Peptides and proteins

(B) Avoidance of Reticulo-endothelial (RES) clearance

(C) Reduce clearance rate through kidney

(D) All

39. Characteristics feature if hemorrhagic dengue fever is

(a) Reduction in platelet count (b) Reduction in RBC count

(c) Reduction in coagulation factors (d) Increased RBC

40. The carbonyl starching frequency for simple aldehydes, ketones, and carboxylic acids is about 1710 cm^{-1}, where as the carbonyl stretching frequency for esters is about ..... cm^{-1}

(a) 1650 (b) 1700 (c) 1750 (d) 1850

41. Plarographic method of analysis to obtain individual amounts of Cu^{2+} and Cd^{2+} in a given mixture of the two ions (Cu2+ and Cd2+) is achieved by measuring their

(a) Half-wave potentials (b) Migration currents

(c) Decomposition potentials (d) Diffusion currents

42. Consider the reaction: $A + B \rightleftharpoons C$

The unit of the thermodynamic equilibrium constant for the reaction is

(a) mol L^{-1} (b) L mol^{-1}

(c) mol^2 L^{-2} (d) Dimensionless

43. _____, system does not have orifice to release the drug.

(a) Elementary Osmotic Pump (b) L-OROS

(c) Sandwich Osmotic Pump Tablet (d) Controlled Porosity Osmotic Pump Tablet

44. Sanguinarine belongs to the subgroup of:

(a) Morphinans (b) Benzyl isoquinolines

(c) Phthalide isoquinolines (d) Benzophenanthrenes

45. Identify the IUPAC of dexamethasone

(a) 2-Chloro-6α, 9α-difluoro-11α, 17, 21-trihydroxy-16α-methylpregna-1,4-dien-3, 20-dione

(b) 9α-Fluoro-11β, 17α, 21-trihydroxy-16β-methylpregna-1, 4-diene-3, 20-dione

(c) 9α-Fluoro-11β, 17α, 21-trihydroxy-16β-methylpregna-1, 4-diene-3, 20-dione

(d) 6α-Fluoro-11α, 21-dihydroxy-16α-methylpregna-1, 4-diene-3. 20-dione

46. Tamoxifen is nonsteroidal drug acting at steroid receptor(s) It produces which type of effects

(P) Androgen (Q) Antiestrogen

(R) Antiprogestogen (S) Estrogen

(a) P and Q (b) Q and S (c) Q and R (d) R and S

47. Which enzymes is used by the HIV to form DNA in the host cell

(a) Restriction endonuclease
(b) DNA-directed polymerase only
(c) Reverse transcriptate only
(d) Both (b)and (c)

48. 'Sparging' is the process where

(a) Silanol groups react with trimethylsilyl group
(b) An inert has is bubbled through the solvent reservoir to remove dissolved gases
(c) Solvents are mixed together in a fixed ratio
(d) Column is washed with solvents from nonpolar to polar and reverse

49. Morphine does not cause:

(a) Constriction of pupil
(b) CNS depression
(c) Respiratory depression
(d) Diarrhoea

50. Which of the following is not recommended in patients with renal insufficiency or cardiac dysfunction

(a) Aloe (b) Bisacodyl (c) Isapghol (d) Magnesium hydroxide

51. Higuchi model is applicable to drug that is..... In the formulation

(a) Dissolved in formulation
(b) Dispersed in formulation
(c) Chemically bound to carrier in formulation
(d) Osmotically controlled in the formulation

52. Which of the following in correct about parenteral nutrition

(a) Parentral nutrition solutions are hypertonic solutionsand IV fluids are isotonic
(b) Parentralnutribtionsolutions and IV preparations are isotonic solutions
(c) Parentrtal nutrition solutions are hypertonic solutions and IV fluids are isotonic
(d) Parentral nutrition solutions can be supplemented with mediacations

53. Cyclic AMP (cAMP) is an important second messenger in signal transduction pathway(s)Which enzyme catalyzes the generation/accumulation of cAMP after a receptor – ligand interaction

(a) Protein kinase A
(b) cAMP phosphodiesterase
(c) Guanylyl cyclase
(d) Adenylate cyclase

54. Which of the following in not include in immunization programme as per WHO recommendations for all children

(a) BCG (b) Oral polio (c) Measels (d) Typhoid

55. Match the given condition with appropriate drug used for its treatment

(1) Pernicious anemia
(2) Meagaloblastic anemia
(3) Anemia associated with chronic renal failure
(4) Thrombocypeniadue to cancer chemotherapy

(P) Erythropetin
(Q) Oprelvekin
(R) Ratenteral Vitamin B_{12}
(S) Folic acid

(a) 1-P, 2-Q, 3-R, 4-S (b) 1-R, 2-S, 3-P, 4-Q (c) 1-R, 2-Q, 3-S, 4-P (d) 1-R, 2-P, 3-S, 4-Q

56. In mammals, The major fat in adipose tissue is:

(a) Triglyceride (b) Cholesterol
(c) Sphingophospholipids (d) Phospholipids

57. Plarographic method of analysis to obtain individual amounts of Cu^{2+} and Cd^{2+} in a given mixture of the two ions (Cu^{2+} and Cd^{2+}) is achieved by measuring their

(a) Half-wave potentials (b) Migration currents
(c) Decomposition potentials (d) Diffusion currents

58. What is the objective of trademark

(a) To claim exclusive properties of products or services
(b) To claim innovation of products or services
(c) To deal with market place of expressive ideas
(d) To protect consumers from being misled

59. Turbulent flow is exhibited by fluids whose

(a) Re<40' (b) Re>40' (c) Re=40 (d) All of the above

60. Characteristics of drug-protein binding

(P) Often parallels drug lipid solubility
(Q) Drug-plasma albumin binding tends to be relatively nonselective
(R) Acidic drugs bind to albumin while basic drug bind to glycoproteins
(S) In rheumatoid arthritis patients, increased alpha1- acidic glycoprotein tends to promote increased lidocaine protein binding

(a) P and Q (b) P, Q and R (c) P, Q, R and S (d) P and R

61. C=O stretchings are very strong and easily observable bands in IR spectroscopy. However in the IR spectrum of glucose C=O absorption band is not seen. Why

(a) In glucose, C=O group is not terminal (b) In glucose C=O group is absent
(c) In glucose, hemiacetal group is present (d) In glucose, hemiketal group is present

62. What is/are use/s of phenol coefficient

(a) Tocompare a disinfectant's killing efficacy to that of phenol
(b) To determine the dilution at which the disinfectant is to be used
(c) To determine the purity of disinfectant
(d) All of the above

63. Arrange the following esters as per decreasing order of rate of saponification

(I) Ethyl benzoate (II) Ethyl p- methoxybenzoate
(III) Ethyl p- chlorobenzoate (IV) Ethyl p-nitrobenzoate

(a) I>II>III>IV (b) IV>III>II>I (c) IV>III>I>II (d) II>IV>I>III

64. Which of the following statements about bentonite are CORRECT

(P) Gycerin is used to pre-wet the bentonite prior to mixing with water to form its gel

(Q) Aqueous bentonite suspensions retain their viscosity above pH 6 but are precipitated by acids

(R) MgO increase gel formation while alcohol in significant amounts can precipitate bentonite gel

(S) Betonite exhibits rheopexy

(a) P and Q (b) Q and R (c) P,Q and R (d) P, Q, R and S

65. Acid insoluble ash of a leaf is called as

(a) Earthy matter & silica (b) Inorganic content

(c) Organic Content (d) All of the above

66. Grape fruit juice is P- glycoprotein and CYP40 enzyme inhibitor . if drug X is degraded by proteolytic enzymes, administration of grapefruit juice with X

(a) Increase bioavailability of X (b) Decrease Bioavailability of X

(c) Does not affect bioavailability of X (d) Cause unexpected action of X

67. Tannins give positive test for all of the following EXCEPT

(P) Goldebeater skin test (Q) Phenazone

(R) Biuret test (S) $FeCl_3$

(a) P and Q (b) Q and R (c) P, Q and R (d) P,Q and S

68. Vigabatrin is a GABA analogue that potentiates action of GABA in the brain because it

(a) Binds to GABA receptor and acts as agonist

(b) Inhibits GABA transaminase

(c) Blocks NMDA receptor via the glycine binding site

(d) Inhibits neuronal reuptake of GABA from synapses

69. Drug that increases systolic B.P. but reduces diastolic B.P.

(a) Isoproterenol (b) Epinephrine (c) Nor Epinephrine (d) Propranol

70. Which of the following are characteristics for colloid mills

(P) Due to centrifugal forces, the mill undergoes periodical vibratory movement

(Q) Particles smaller than 1 µm can be obtained with them

(R) The main types of colloid mills are hammer , turbine and dial mills

(S) The principle of their operation is based on the abrasion of particles at high speed

(a) Only, P, Q and R are correct (b) Only P and R are correct

(c) Only Q and S are correct (d) P, Q, R and S are correct

71. Inflamation of soft tissue due to hyaluronidase is called as

(a) Tendinitis (b) Bursitis

(c) Cellulitics (d) Cumulative Injury Disorder (CID)

72. The hydroxyl derivative of cymene is called as what

(P) Thymol (Q) Carvacrol (R) Menthol (S) Cumene

(a) P, Q, R and S (b) P, Q , and R (c) P and Q (d) Only P

73. Which of the following are the correct properties of ferroin? Ferroin is

(P) 1, 10-phnathroline (Q) A bidentate ligand complex

(R) Red in reduced form (S) Blue in oxidized form

(a) P and Q (b) R and S (c) P, R and S (d) P, Q, R and S

74. Each of the following is a glycosaminoglycan dengue fever is

(a) Chondroitin and dermatan (b) Heparan and heparin

(c) Hyaluronic acid and keratin (d) Keratin and chitin

75. If X is an equivalent of silver deposited is silver coulometer and Y is an equipment of copper deposited in copper coulometer when constant current is passed through the electrochemical cell for the same time which of the following is correct

(a) X =Y (b) X = 2Y (c) X = Y/2 (d) 2X =Y

76. Which of the following classes of medication is the most common initial treatment of men with symptomatic benign prostatic hypertrophy (BPH)

(a) Alpha-1 agonist (b) Alpha-1 blocker (c) Beta-1 agonist (d) Beta-1 blocker

77. Which of the following reagents can be used for alkaloid detection

(P) Mayer reagent (Q) Kedde reagent

(R) Dr4agendoff reagent (S) Alcoholic solution of 2, 4 dinitrophenylhydrazine

(a) Only P and Q are correct (b) Only P and R are correct

(c) Only P and Rare correct (d) Only R and S are correct

78. Which schedule Drugs & Cosmetics Act include Particulars to the shown in /manufacturing Records

(a) Schedule A (b) Schedule V (c) Schedule U (d) Schedule W

79. All of the following statements about plasmodium falciparum are correct EXCEPT

(a) Trohozoites, Schizonts and gametocytes are not seen in peripheral blood smear.

(b) Is associated with recurrent relapses after initial treatment because of liver hypnozoites

(c) More than one parasite/multiple infection can be seen within single RBC

(d) Causes more severe disease in pregnancy

80. The chairman of the investigational new Drug (IND) committee in India is

(a) Drugs controller General of India, Government of India

(b) Secetary, Department of Health Reasearch, Government of India

(c) Directorate General of Health Sciences, Government of India

(d) Secretary, Department of Biotechnology, Government of India

81. In the filling of container what is the meaning of "overfill container"

(a) Container filled to its minimum capacity
(b) Container filled to its maximum capacity
(c) Empty container
(d) Cleaned container

82. What is the name of floor on which production work is done rather than administration

(a) Administration area
(b) Production area
(c) Quality control area
(d) Quarentine Area

83. Quinoline contains two basic rings. One of the rings in quinolone. It is attached to second ring via o one carbon bridge. Which in the second ring

(a) 8-Azabicyclo [3.2.1] octane
(b) 1-Azabicyclo [2.2.2] octane
(c) 1, 4-Diazabicyclo [2.2.2] octane
(d) Rubane

84. Which of the first drugs are potentiated by the second

(a) Phenytoin – Ethinyloestradiol
(b) Warfarin – Phenobarbitone
(c) Lithium- Thaazide diuretics Potentiated due to reduced Lithium clearance
(d) Bromorcriptine- Metpoclopramide

85. Which of the following is a long acting β2 agonist that can be given by nebulization and as well a dry powder inhaler for the treatment of COPD

(a) Foramterol
(b) Albuterol
(c) Pulmicort
(d) Fluticasone

86. Which anticholinergic drug mostly used as anti Parkinson drug

(a) Procyclidin
(b) Methinicol
(c) Tacrin
(d) Atropine

87. To create successful new product, a company understands consumers, markets, and competitors and develop a/an

(a) Impressive advertising campaign
(b) Strong wed site to push the product
(c) Aggressive marketing strategy
(d) Product that satisties consumers' needs

88. Which of the following method is an example of facilitated diffusion?

(a) Passive diffusion
(b) Endocytosis
(c) Carrier mediated diffusion
(d) Active transport

89. Which of the following causes arterial and bronchial constriction and platelet aggregation

(a) Prostaglandin E_2
(b) Prostaglanding A_2
(c) Prostaglandin D_2
(d) Thromboxane A_2

90. What is mechanism of action of carbamazepine

(a) Inhibition of GABA transaminase
(b) Blockade of sodium channel
(c) Blockade of glutamate receptor
(d) Blockade of GABA receptors

91. Passive diffusion follows which order of kinetics
(a) Non selective and mixed order (b) Selective and first order
(c) Non selective and first order (d) Selective and mixed order

92. Conc v/s time curve drown from single oral dose, which parameter can be calculated
(a) Elimination constant (b) Rate constant (c) Absorption peak (d) Plasma conc.

93. If a basic drug reabsorbed significantly from kidney which of the following statement will be correct
(a) Its renal clearance increases in basic urine (b) Its renal clearance decreases in basic urine
(c) Its renal clearance increases in acidic urine (d) Its renal clearance decreases in acidic urine

94. o, m, p- isomers can be differentiated on the basis of:
(a) Chemical shift (b) Coupling constant
(c) Extinction coefficient (d) Dipole moment

95. Monitoring of plasma drug concentration is required while using:
(a) Antihypertensive drugs (b) Levodopa
(c) Lithium carbonate (d) MAO inhibitors

96. Bacterial endotoxin are mainly detected by
(a) Pyrogen test (b) LAL test (c) Thermal test (d) Bacterial tes

97. The shelf life of a medicine is defined as :
(a) Time required for 10% degradation of drug
(b) Time required for 50% degradation of drug
(c) Time required for 90% degradation of drug
(d) Time required for 100% degradation of drug

98. In which rearrangement reaction, Isocyanate is formed?
(a) Curtious (b) Lossen (c) Both A & B (d) None

99. Chitin gets converted in to Chitosan upon:
(a) Acetylation (b) Deacetylation
(c) Oxidation (d) Reduction

100. Efficiency of drug is checked in modest population in
(a) Clinical trail-phase1 (b) Clinical trail-phase2
(c) Clinical trail-phase3 (d) Clinical trail-phase4

101. The mixed gland of our body which secrets both hormones and digestive enzyme, so pancreatic enzyme digest which substances
(a) Lipids, Protein, Carbohydrate but not Nucleic acid
(b) Protein, Carbohydrate, Nucleic acid but not Lipids,
(c) Carbohydrate, Lipids, nucleic acid but not Protein
(d) Lipids, Protein, Nucleic acid but not Carbohydrate

102. In which type of bacteria the cell wall is thicker

(a) Gram +ve (b) Gram –ve (c) Both (d) None

103. Out of the following anti cancer drug cardio toxicity is seen in

(a) Mitomycin-C (b) Doxorubicin (c) Methotraxate (d) Cyclophosphamide

104. Which of the following free radical is most dangerous free radical

(a) O^- (b) H^+ (c) H_2O_2 (d) Superoxide

105. The phosphate of a metal has the formula MHPO4. The formula of its Bromide would be:

(a) MBr (b) MBr2 (c) MBr3 (d) MBr4

106. Silicone based adhesive used in TDDS possess following properties:

(a) Chemical and biological inertness (b) Low toxicity

(c) Low sensitization and irritation (d) All

107. Schleuniger tester is used for the tablets to measure:

(a) Roughness (b) Hardness (c) Dissolution (d) Friability

108. Creatinine clearance is used as a measurement of:

(a) Passive renal absorption (b) Glomerular filtration rate

(c) Renal excretion rate (d) All

109. 1-[2-[(2-chloro thienly)methoxy]-2-(2,4-dichlorophenyl)ethyl]-1Iimidazole is:

(a) Oxiconazole (b) Sulconazole

(c) Tioconazole (d) Miconazole

110. The drug of choice in prolonged febrile convulsions is:

(a) Carbamazepine (b) Diazepam (c) Phenytoin (d) Paracetamol

111. Geometrical isomerism is possible in case of:

(a) 2-Pentene (b) Pentane (c) Propene (d) Ethene

112. The loading dose (DL) of a drug is usually based on the:

(a) Total body clearance of the drug

(b) Percentage of drug bound to plasma proteins

(c) Fraction of drug excreted unchanged in the urine

(d) Apparent volume of distribution & desired drug concentration in plasma

113. Biologically active arachidonic acid is

(a) All transeicosatetraenoic acid (b) All cis eicosatetraenoic acid

(c) All transeicosatrienoic acid (d) All cis eicosatrienoic acid

114. Antidiabetic action of gliburidestart at molecular level by which mechanism

(a) Phosphorylation of receptor (b) Binding to potassium ions

(c) Decrease in potassium effiux (d) Increase in potassium effiux

115. Momordica charantia having blood sugar lowering activity due to:

(a) Momordicin (b) Charantin (c) Momortin (d) Charantiamarin

116. Insulin stimulates glucose transport by promoting the translocation of:

(a) GLUT 4 (b) GLUT 2 & GLUT 4

(c) GLUT 1 & GLUT 4 (d) GLUT 2

117. Oral rehydration salt contains ionic electrolytes in concentration mmlo/L

(a) Na^+ 20, K^+ 10 (b) Na^+ 40, K^+ 20 (c) Na^+ 53, K^+ 40 (d) Na^+ 60, K^+ 20

118. In pinacol – pinacolone rearrangement, the final product is ketone. What is the starting compound for the rearrangement

(a) 1, 1-diol (b) 1, 2-diol (c) 1, 3-diol (d) Geminal diol

119. Which of the following method is useful for measuring the number of viable cells in a culture

(a) Plate count technique (b) Dry weight method

(c) Petroff-Hauser counter (d) Light scattering in a spectrophotometer

120. Seeding involves the spread of cancer cells to

(a) Blood vessels (b) Serious membranes of body cavities

(c) Fascia surrounding muscles and bones (d) Dermis and subcutamneum of the skin

121. Barbiturates are being replaced by hypnotic benzodiazepines because of

(a) Low therapeutic index (b) Suppression in REM sleep

(c) High potential of physical dependence, abuse (d) All of the above

122. Adverse drug Event reporting in the responsibility of all of the following EXCEPT

(a) Pharmacist and physician (b) Manufacturer

(c) Consumer (d) Regulatory authorities

123. Time dependent dilatant behavior is knows as

(a) Thixotrophy (b) Rheopexy (c) Rheomalaxis (d) Plastic

124. Chairman of DTAB is:

(a) Health minister of India (b) Director general of Health services

(c) Drug controller of India (d) President of AICTE

125. Plasmodesmata is:

(a) Lignified element (b) Vascular element

(c) Very fine protoplasmic thread (d) None

End of paper

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ANSWER KEY GPAT 2015

1-c	2-b	3-c	4-b	5-b	6-c	7-a	8-b	9-a	10-d
11-b	12-c	13-a	14-c	15-c	16-d	17-c	18-a	19-c	20-d
21-d	22-d	23-d	24-a	25-a	26-a	27-a	28-a	29-a	30-b
31-c	32-c	33-b	34-a	35-b	36-a	37-b	38-d	39-a	40-c
41-d	42-d	43-d	44-b	45-b	46-b	47-c	48-b	49-d	50-d
51-b	52-a	53-d	54-a	55-b	56-a	57-d	58-c	59-b	60-c
61-c	62-a	63-c	64-c	65-a	66-b	67-d	68-b	69-a	70-c
71-c	72-c	73-d	74-d	75-a	76-b	77-b	78-c	79-b	80-a
81-b	82-b	83-b	84-c	85-a	86-a	87-c	88-c	89-d	90-b
91-a	92-b	93-b	94-b	95-c	96- b	97- a	98-c	99-b	100-b
101-a	102-a	103-b	104-d	105-b	106-d	107-b	108-b	109-c	110-b
111-a	112-d	113-b	114-c	115-b	116-c	117-d	118-b	119-a	120-b
121-d	122-d	123-b	124-b	125-d					

GPAT QUESTIONS

1. What is the Carr's index of good flow powder property
   (a) 5-15 (b) 12-16 (c) 18-21 (d) 28-35
2. Which microorganism is involved in the assay of Rifampicin
   (a) Bacillus subtilis (b) Micrococcus luteus (c) Bacillus pumilus (d) Bacillus cereus
3. Which percentage of dextrose is isotonic with the blood plasma
   (a) 5% (b) 10% (c) 15% (d) 20%
4. What is the biological source of Alexandrian Senna
   (a) Cassia aungustifolia (b) Cassia acutifolia
   (c) Cassia Bravifolia (d) Cassia Nerifolia
5. HLB of SPAN and TWEEN surfactants may be obtained from which of the following equations
   (a) HLB = E/5
   (b) HLB = (E+P)/5
   (c) HLB = 20 [(1- S)/A)]
   (d) HLB = (hydrophilic group numbers)- (lipophilic group numbers)+7
6. If the given drug is absorbed by passive what will be its absorption kinetics
   (a) Zero Order (b) First Order
   (c) Second order (d) Pseudo-zero Order
7. Which of the following is delayed type of her sensitivity reaction
   (a) Arthus reaction (b) Penicillin sensitivity
   (c) Tubercullin sensitivity (d) ABO incompatibity
8. Which of the following is NOT suitable as a post-coital contraceptive
   (a) Levonorgestrel 1.5mg (b) Ulipristal acetate 30 mg
   (c) Mifepristone 10-25 mg (d) Mestranol 1.5 mg
9. Which of the following properties are characteristics of tannis
   (P) They give a precipitate with alkaloids
   (Q) They give a yellow of bluish red color with iron(III) chloride
   (R) They transform hide into leather
   (S) They give a pale-pink precipipate with iodine
   (a) P, Q, S (b) P and Q (c) P and R (d) Only Q

10. Adverse drug Event reporting in the responsibility of all of the following EXCEPT
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    (c) Consumer
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11. Time dependent dilatant behavior is knows as
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    (a) Lignified element
    (b) Vascular element
    (c) Very fine protoplasmic thread
    (d) None
14. Efficiency of drug is checked in modest population in
    (a) Clinical trail-phase1
    (b) Clinical trail-phase2
    (c) Clinical trail-phase3
    (d) Clinical trail-phase4
15. Which of the following statements is correct for gram positive becteria
    (a) Cell wall has a thin peptidoglycan layer
    (b) Cell wall lipid content is very low and smaller volume of periplasm
    (c) Lipopolysaccharide layer is present
    (d) Teichoic acid is present
16. The terms upper consulate temperature and lower consulate temperature are related to which phenomenon
    (a) Cloud point
    (b) Critical solution temperature
    (c) Kraft point
    (d) Phase inversion
17. Match the alkaloids with their synthesis precursors.
    (1) Pilocarpine
    (2) Connine
    (3) Caffine
    (4) Yohimbine
    (P) Necleotide
    (Q) Tryptophan
    (R) Histadine
    (S) Acetate derived
    (a) 1-S, 2-R, 3-P, 4-Q
    (b) 1-S, 2-Q, 3-P, 4-R
    (c) 1-P, 2-R, 3-S, 4-Q
    (d) 1-R, 2-S, 3-P, 4-Q
18. Which one of the following is a solid dosage form excipient which can play the role of a diluent, a disintegrant, a glidant, a lubricant and a pore/ channel former.
    (a) Lactose
    (b) Microcrystalline cellulose
    (c) Ethyl cellulose
    (d) Eudragit RL 100
19. What is the required floor area for running a pharmacy for wholesale or distribution
    (a) 6 sq meters
    (b) 10 sq meters
    (c) 15 sq meters
    (d) 30 sq meters

20. Bioavailability differences among drug's oral formulations are most likely to occur if it

(a) Is freely water soluble
(b) Is incompletely absorbed
(c) Is completely absorbed
(d) Undergoes little first-pass metabolism

21. Match the drug with their receptor profiles

(1) Ergotamine
(2) Ondansetron
(3) Sumartriptan
(4) Ketanserin

(P) 5-HT_{2A} antagonist
(Q) 5-HT_{1} partial agonist /antagonist
(R) 5-HT_{3} antagonist
(S) 5-HT_{1D} agonist

(a) 1-R, 2-S, 3-Q, 4-P
(b) 1-Q, 2-R, 3-S, 4-P
(c) 1-R, 2-S, 3-P, 4-Q
(d) 1-S, 2-R, 3-P, 4-Q

22. What strategy of drug design is frequently used on complex lead compounds derived from natural products

(a) Extension
(b) Simplication
(c) Rigidication
(d) Conformational block

23. Which type of photon detector is commonly microfabricated into arrays of 500 or More individual detectors

(a) Photocell
(b) Phototube
(c) Photumultiplier tube
(d) Photodiode

24. Which of the following is a phjse II drug metabolism reaction associated with genetic polymorphism

(a) Glucuroinidation
(b) Acytylation
(c) Reduction
(d) Glutathione conjugation

25. A gram-negative diplococcus associated with urinary tract infection , pelvic inflammatory disease and conjunctivitis, meningitis is

(a) Neissria gonorrhoeae
(b) Chlamdia Trachomatis
(c) Hemophilus influenza
(d) Streptococcus pneumoniae

26. Pregnancy test kits are designed to detect

(a) Estrogen
(b) Human chorionic gonadotropin
(c) Follicle-stimulating hormone
(d) Luteinizing hormone

27. Drug Z is a depolarizing neuromuscular blocking agent effective for the treatment of pinworm. Identify drug Z

(a) Phyrantel
(b) Paramomycin
(c) Integrase
(d) Protease

28. Metheneamine used for UTI is a prodrug. How and to what is is converted into

(a) At low pH of Urine, to formaldehye
(b) At high pH of urine, to aminosalicylic acid
(c) At low pH of Urine, to amonosalicylic acid
(d) At high pH of urine,to formaldehye

29. The correct order for the basic features of a mass spectrometer is

(a) Acceleration, deflection, detection, ionization
(b) Ionization ,Acceleration, deflection, detection
(c) Acceleration, ionization, deflection, detection
(d) Acceleration, deflection, ionization, detection

30. Match the following enzymes/protein with specific functions in DNA replication

(1) Helicases — (P) Processive unwinding of DNA
(2) DNA Primses — (Q) Seals the single strand
(3) DNA ligases — (R) Relieves torsional strain
(4) Topiosomerases — (S) Initates synthesis of RNA Primers

(a) 1-P, 2-Q, 3-R, 4-S
(b) 1-P, 2-S, 3-Q, 4-R
(c) 1-S, 2-Q, 3-P, 4-R
(d) 1-P, 2-Q, 3-R, 4-S

31. Which is the first line drug for the treatment of generalized seizures

(a) Valproic acid
(b) Anhydortetracycline
(c) Carbamazepine
(d) Doxycycline

32 Tetracyline in basic solution is usstable and forms which product

(a) Epithtracycline
(b) Anhydrotetracycline
(c) Isotetracycline
(d) Doxycycline

33. The location of the blood-brain barrier is considered to be

(a) At the level of the brain capillaries
(b) At the level of gila
(c) At the level of neorons
(d) At the level of dendrites

34. The following drug metabolizing reaction in entirely non-microsomal:

(a) Glucuronide conjugation
(b) Acetylation
(c) Oxidation
(d) Reduction

35. Which of the following methods is used to determine whether a process functions properly for its intended use

(a) Capacity
(b) Inspection
(c) Validation
(d) Design Review

36. Match product, source and plant part form which they areobtained

(1) Bacosides — (P) Aciacia catechu — (i) Herb
(2) Cutch — (P) Rubiatictorium — (ii) Leaf
(3) Henna — (R) Bacopamonnieri — (iii) Root
(4) Alizarm — (S) Lawsoniainternis — (iv) Stem

(a) 1-R-ii, 2-S-I, 3Q-Q-iii, 4-P-iv
(b) 1-R-I, 2-P-iv, 3-S-ii, 4-Q-i
(c) 1-Q-ii, 2-P-iii, 3-S-iv, 4-R-I
(d) 1-S-ii, 2-R-iv, 3-P-I, 4-Q-i

37. What is the significance of term overfill

(a) It is similar to overage
(b) It is the excess volume to be field in containers as vials, ampoules to avoid loss by degradation
(c) It is the excess filing of container as vials, ampoules to avoid the loss during case
(d) It is violation of packaging regulation as per GMP

38. Identity the false statements
(a) A characteristics of drugs eliminated by zero order kinetic process is that the half –life is not constrains
(b) The plasma drug concertation versus time curve for a drug eliminated by zero order kinetics linear
(c) A fundamental characteristics of all first order pharmacogenetics processes is that the rate of the process is proportional to drug concentration
(d) A characteristics of absorption by lipid diffusion is its saturability at high drug concentrations

39. 2', 3'-Didehydro-3'-deoxy thymidine is the chemical name of which of following antiviral agents
(a) Didenosine (b) Zidovudine (c) Stavudine (d) Zalcitabine

40. Oseltamivir is antiviral drug. It produces its action by inhibiting which enzymes
(a) DNA polymerase (b) Neuraminidase
(c) Praziquantel (d) Ivermectin

41. In NMR spectrum, a signal is observed as triplet. What will be the ratio of relative peak areas in this signal
(a) 1:1:1 (b) 1:2:1 (c) 1:3:1 (d) 1:4:1

42. Which problem can arise if the material to be compressed into tablet tends to adhere to die walls
(a) Picking (b) Sticking (c) Capping (d) Marbling

43. What is the half life of Tc-99m
(a) 66 years (b) 66 hours (c) 6 hours (d) 60 minutes

44. Eudragits are
(a) Phthalate polymers (b) Cellulose polymers
(c) Acrylate polymers (d) Amide polymers

45. Drugs (price control) order 1995 and related orders form time to time are enforeced by
(a) NPPA (b) CSIR (c) DBT (d) ICMR

46. Match the drugs with plant from which they are isolated and their families

(1) Artemisinin	(P) Periwinkle	(i) Dioscoreaceae
(2) Diosgenin	(Q) May apple	(ii) Apocynaceae
(3) Etoposide	(R) Sweet wormwood	(iii) Berberidaceae
(4) Vinblastine and Vicnristine	(S) Maxican wild yam	(iv) Asteraceae

(a) 1-R-iv, 2-S-i, 3-Q-iii, 4-P-ii (b) 1-s-iv, 2-R-i, 3-Q-iii, 4-P-ii
(c) 1-Q-iii, 2-R-ii, 3-Q-i, 4-P-iv (d) 1-R-iv, 2-S-iii, 3-Q-i, 4-P-ii

47. Which of the following is an irreversible phenomenonralated to stability of emulsion
(a) Craking (b) Creaming
(c) Coalescence (d) Flocculation

48. If a drug is highly bound to plasma proteins, what might be its reason or consequence
(a) It most likely carried by α-glycorprotien (b) It has a high renal clearance
(c) It has a large Vd (d) It is a likely candidate for drug interactions

49. In order to make a generic substitution ; a pharmacist must do also act as a hydrogen bond acceptor
(a) Notify the patient of the substitution
(b) Charge the same or lower price for the generic
(c) Place the brand name on the label and write "substitute for"
(d) Obtain the physician's consent to substitute the product

50. Which of the following groups can form ionic interactions and also act as a hydrogen bond acceptor
(a) Hydroxyl group (OH) (b) Carboxylate group (RCOO)
(c) Aminononium group (RNH^{3+}) (d) Ketone (C=O)

51. Which of the following drug does not give pink colour with ruthenium red
(a) Agar (b) Guar gum (c) Pectin (d) Isabgol

52. The IUPAC name, 4-Amino-N(5,6-dimethoxy-4-pyrimidinly) benzenseulfonamide belong to which generic drug
(a) Sulfadimidine (b) Sulfadoxine (c) Sulfalene (d) Sufamerazine

53. Method of inspections used to determine the absorption rate constants. It assumes that
(P) Ka is at least five time grater activities
(Q) Absorption in complete (i.e. > 95% complete) at the time of peak concentration
(R) Both Absorption and elimination are first order processes
(a) P and Q (b) Q and R (c) Q and R (d) P and R

54. The clinical trial registry in India is maintained by
(a) World health organization, Delhi
(b) Indian council of medical research , New Delhi
(c) Institute of Clinical Research, New Delhi
(d) Central drugs standard control Organization, New Delhi

55. What is the correct order for unsaturation in following fatty acids
(1) Palmitoleic Acid (2) Linolenic
(3) Linoleic acid (4) Arachidonic acid
(a) 1>2>3>4 (b) 3>4>2>1 (c) 4>3>2>1 (d) 4>2>3>1

56. Which of the following is an example of Diaz onium ion
(a) $CH_3^+N_3^-$ (b) $CH_3N_2^+$ (c) $H_2N\text{-}NH_3^+$ (d) None of these

57. Which term describes 'The degree to which a set of inherent properties of a product system , of rocess fulfils requirements, the best'
(a) Standard (b) Quality (c) Quality objective (d) State of control

58. What will be AUC value of lidocaine if the administered dose is 0.2 g and the total body clearance is 45 L/h
(a) 4.44 h.mg/L (b) 0.0044 h.mg/L (c) 9.00 h.gm/L (d) 9000 h. mg/L

59. Toluene is converted of which compound in presence of CrO_3 with acetic anhydride
(a) Benzyl alcohol (b) Benzaldehyde
(c) Benzoic acid (d) Benzoin

60. Match the antimalarial drugs with their modes of action
(1) Artemisinin (P) Inhibition of parasite mitochondrial electron Tranport
(2) Pyremethamine (Q) Inhibition of heme polymerase
(3) Quinine (R) Generation of oxygen and carbon- centered redicals
(4) Atovaquone/Proguanil (S) Inhibition of dihydrofolate reductase
(a) 1-P, 2-S, 3-Q, 4-R (b) 1-Q, 2-S, 3-P, 4-R
(c) 1-S, 2-R, 3-Q, 4-P (d) 1-R, 2-S, 3-Q, 4-P

61. Methyl ether of erythromycin is .....
(a) Clarithromycin (b) Dirithromycina
(c) Azithromycin (d) Mithramycin

62. Ebullioscopicmethod is based on which of the following observation
(a) Freezing point depression (b) Boiling point elevation
(c) Osmotic pressure change (d) None of the above

63. How many fundamental svibrations can be expected for C_2H_5CL
(a) 7 (b) 11 (c) 14 (d) 18

64. Which of the antibodies provide passive immunity to newborn baby
(a) lgG (b) lgM (c) lgA (d) lgE

65. Increased number of number mitosis may be present in the following tissue EXCEPT
(a) Bone marrow cells (b) Nails (c) Hepatocytes (d) Intestinal Cells

66. To which chemical class the vinca alkaloids belong
(a) Tropane (b) Indole (c) Tryptopha (d) Purine

67. An antibiotic thatn resembles the 3' end of a charged tRNA molecule is
(a) Streptomycin (b) Vincamycin (c) Puromycin (d) Tetracycline

68. If the cohesive forces in between similar molecules are less than the adhesive forces between dissimilar\ molecules, a deviation in Raolt's law is observed . here witch deviation will be seen.
(a) Positive (b) Negative
(c) Absent (d) Either positive or negative

69. Phenylalanine, a precursor of most of the phenolics is higher plants is a product of which one of the following pathways
(a) Shikimic acid pathway (b) Malonic acid pathway
(c) Mevalonic acid pathway (d) Methylerhtritol pathway

70. Within how many days a pharmacist should dispense diluted aqueous mixtures
(a) 7 days (b) 14 days (c) 21 days (d) 30 days

71. What molecular feature is penicillin G is said o mimic
(a) Disaccharide of N-acetylmuranicanidN- actylgulcosamine
(b) N-acetylneuraminic acid
(c) The pentapeptide moiety of five glycine units
(d) The dipeptide moiety D-ala-D-Ala

72. If a drug is known to be distributed into total body water, how many milligrams are needed to obtain an initial plasma level of 5mg/L in a patient weighting 70 kg
(a) 210 (b) 150 (c) 50 (d) 35

73. What does 'pharmacokinetical compartment' mean
(a) Part of the body water which is located is the vascular system
(b) Total body water
(c) Plasma, intracellular fluid, together , anatomical water compartments where drug is absorbed
(d) Part of the body water in which the change of a drug concentration has the same kinetics

74. The resistance to macrolide antibiotics by of gram positive organism is developed due to
(a) Decreases uptake of antibiotics
(b) Synthesis of esterase enzyme that hydrolyzes lactone ring of macrolide
(c) Methylation of 50S subunit at the antibiotic binding site
(d) Increased metabolism of antibiotic

75. The ethanolic solution contaminated with benzele showed absorbance of 0.69 at 260 nm in a 2 cm cell if the molar absorptivity of benzene in thanolis 230 $M^{-1}cm^{-1}$, what is the concentration of benzene in the solution
(a) 0.003 M (b) 0.0015 M (c) 0.001M (d) 0.015M

76. The most effective agent for treating psychosis would be
(a) Buspirone (b) Sertaline
(c) Dextroamphetamine (d) Olanzapine

77. TGA is regulatory body of which country
(a) Europe (b) Australia (c) Canada (d) UK

78. Which prostaglandins have a keto function at C-9 and a α- Hydroxyl group at C-11 in prostanoic acid backbone
(a) PGA (b) PGI (c) PGE (d) PGF

79. When morphine is heated at 140°C under pressure, with strong HCL, it converts pnto:
(a) Morphinone (b) Apomorphine
(c) Codeine (d) Oxymorphine

80. All of the following are gram-negative rods EXCEPT
(a) Clostridium (b) Escherichia (c) Salmanella (d) Shigella

81. The cells which secrets male sexhormone testosterone are:
(a) Crypts of lieberkuhn (b) Escherichia
(c) Salmonella (d) Shigella

82. If QA and QC are compared
(a) Both are literally the same
(b) QA is a higher activity in the management hierarchy
(c) QA is a higher activity in the management hierarchy
(d) QA is a done by the production person and QC is done by analyst

83. Bio availability of drug refers to
(P) The ratio of drug excreted unchanged in urine to that excreted as metabolites
(Q) Fraction of the drug reaching the target to produce the action
(R) The length of time an administered drug is available for action
(S) Percentages of administered dose that reaches systemic circulation in the unchanged form
(a) Only P (b) Q and R
(c) R and S (d) Only S

84. Following intravenous administration, drugs are distributed fastest to
(a) The skin, kidney, and brain (b) The liver, kidney, and brain
(c) The liver, adipose, and brain (d) The liver, kidney, and adipose

85. Which of the following agents act as hypoglycemic as ATP sensitive potassium channel blocker
(a) Mitiglinide (b) Pioglitazone
(c) Liraglutide (d) Sitagliptin

86. Carabilide shows stongs IR absorption in which of the following range in cm^{-1}
(a) 3200-3600 (b) 1640-1690
(c) 1000-1300 (d) 2210-2260

87. Match the drugs with their adverse effects
(1) Cyclophosphamide (P) Pulmonary fibrosis
(2) Doxorubicin (Q) Nephrotoxicity, ototoxicity
(3) Bleomycin (R) Acute hemorrhage cystitis
(4) Cisplatin (S) Cardiotoxicity
(a) 1-S, 2-R, 3-P, 4-Q (b) 1-P, 2-Q, 3-S, 4-R
(c) 1-P, 2-S, 3-Q, 4-R (d) 1-R, 2-S, 3-P, 4-Q

88. Which one of the following technique is used to determine glass transition temperature
(a) X-ray diffractometry (b) Raman spectroscopy
(c) Differential scanning calorimetry (d) Atomic forced microscopy

89. Match the schedules with the particulars they describe

(1) Schedule T	(P) Standards for patent or proprietary medicines
(2) Schedule U	(Q) Requirements/ guidelines to import &/or manufactures new Drug
(3) Schedule V	(R) GMP practices for Ayurvedic, siddha & Unani medicines
(4) Schedule Y	(S) Particulars to be shown in the manufacturing records

(a) 1-R, 2-S, 3-Q, 4-P (b) 1-S, 2-Q, 3-P, 4-R
(c) 1-R, 2-S, 3-P, 4-Q (d) 1-S, 2-R, 3-P, 4-Q

90. Which of the following UV rays cause cancer
(a) UVA (b) UVB (c) UVC (d) All of the above

91. Which are the types of antibodies involved in hypersensitivity reactions
(a) LgG and LgD (b) LgG and LgM (c) LgD and LgA (d) LgM and LgD

92. The term used to describe unequal distribution of colour on a tablet is
(a) Chipping (b) Mottling (c) Lamination (d) Double impress

93. Why acetyl chloride undergoes nucleophilic substitution at a faster rate than methyl acetate
(a) The ester is more sterically hindered than the acid chloride
(b) The chloride ion is a better leaving group than methoxide
(c) The acid chloride is more sterically hindered than the ester
(d) The methoxide ion is a better leaving group than chloride

94. The key concept of Total Quality Managements (TQM) is
(a) Total control of all quality related activities
(b) Commitment of all employees to quality improvement and having team meetings
(c) Top management's direct involvement
(d) The Introduction ot the ISO 9000 Series

95. A drug of low water solubility when given orally is absorbed up to 90% of the administered does. The drug belongs to which class according to BCS classification
(a) Class IV (b) Class III (c) Class II (d) Class I

96. Which of the following is NOTa component of evaporator
(a) Heat exchange (b) Vacuum separator (c) Condenser (d) Cyclone separator

97. In parkinson's disease, there is a predominant loss of dopaminergic neurons
(a) Substantia (b) Cerebellar (c) Cerebral cortext (d) Locus ceruleus

98. At equilibrium the receptor occupancy is related to drug concentration by
(a) Henderson-Hasselbach equation (b) Hill- Langmuir equation
(c) Lineweaver-Burk equation (d) Langmuir adsorption isotherm

99. Which method is not suitable to calculate area under the curve
(a) Least square method
(b) Weighing andplatometery
(c) Trapezoid rule
(d) Integration of curve

100. OROS is a technology developed for/as
(a) Oral release rapid onset system
(b) Orally rapid disintegrating tablets
(c) Osmotic controlled oral drug delivery system
(d) Transdermal drug delivery system

101. Match the events in tablet manufacturing process with the effects found in tables

(1) Rapid drying of coated tablets after coaching	(P) Increased distegration time
(2) Use to highly viscous solution	(Q) Weight variation
(3) Improper feed rate form hopper	(R) Orange peel
(4) Excessive compression force	(S) Blistering

(a) 1-R, 2-S, 3-Q, 4-P
(b) 1-R, 2-S, 3-P, 4-Q
(c) 1-S, 2-R, 3-Q, 4-P
(d) 1-R, 2-P, 3-S, 4-Q

102. At pH 5, the ratio of the protonated to unprotanated forms of morphine pKa 7 would be
(a) 1:100
(b) 1:10
(c) 10:1
(d) 100:1

103. What structure is formed if the acyl side chain of penicillin is hydrolysed
(a) Penicellienic acids
(b) Penillic acids
(c) 7-Aminopenicillanic acid
(d) 6-Aminopenicillanic acid

104. The clinical trial is being conducted with 1500 volunteers which may spans on period of 2 years as per protocol. The clinical trial is in which phase
(a) Phase 1
(b) Phase 2
(c) Phase 3
(d) Phase 4

105. Which of the following drug has not undergone a clinical trial for its use to decrease intracranial pressure
(a) Dideoxyinosine
(b) Zidovudine
(c) Acetazolamide
(d) Nicotine

106. Colloidal depression have which type of rheology
(a) Newtonian
(b) Pesudoplastic
(c) Non- Newtonian
(d) Dilatant

107. Which of the reactive oxygen species is most dangerous to cells
(a) Singlet oxygen
(b) Hydroxyl radical
(c) Superoxide
(d) Peroxide

108. The Gibb's Phase rule
(a) Holds only for systems with more than components
(b) Predicts that a maximum of three phase can exits in one components system
(c) Does not count phase compositions as intensive variables
(d) Does not count pressure and temperature as intensive variables

109. Nerve impulse from the cochlea arrive first in which region of the brain
(a) Auditory cortex
(b) Thalamus
(c) Medulla oblongata
(d) Inferior colliculus

110. The product of a Michael reaction of a ketone enolate to ana, b-unsaturated ketone is ..... And addition reaction occurs in a/an
(a) 1,5- deketone; 1,4-fashion
(b) α-substituted acetate; 1,2 fashion
(c) β - hydorxy keto; 1,3 – fashion
(d) α, β - keto ester; 1,5 –fashion

111. Which of the following is a drug considered as potassium sparing diuretic
(a) Trimatrine
(b) Chlorthiazide
(c) Mannitol
(d) Furosemide

112. Which of the reagent from the given can be used to protect ketone group
(a) Acidic methanol
(b) Basic methanol
(c) Methanol + KCN
(d) Phenobarbitone

113. Which of the following drugs causes less inhibition or REM sleep
(a) Zolpidem
(b) Ethanol
(c) Lorazepam
(d) Phenobarbitone

114. The starting materials for synthesis of sulfamethoxazole are
(a) 4- Aminobenzene-1-sulfonyl amide + 3-chloro-5-methyl isoxazole
(b) 4- Aminobenzene-1-sulfonyl amide + 3-amino-5-methyl isoxazole
(c) 4- Aminobenzene-1-sulfonyl amide + 3-amino-5-methyl isoxazole
(d) 4- Aminobenzene-1-sulfonyl amide + 5-chloro-5-methyl isoxazole

115. Match the following plant product with their chemical class
(1) b-amyrin
(2) Sqaulene
(3) Morphine
(4) Ephedrine
(P) Alkaloid secondary alcohol
(Q) Alkaloid, phenol
(R) Triterpene, secondary alcohol
(S) Asyclic triterpene, polyene
(a) 1-R, 2-S, 3-Q, 4-P
(b) 1-S, 2-Q, 3-P, 4-R
(c) 1-P, 2-S, 3-Q, 4-R
(d) 1-R, 2-S, 3-P, 4-Q

116. All of the following except one are subject to therapeutic drug monitoring, Which one
(a) Phenytoin
(b) Lithium
(c) Gentamicin
(d) Losartan

117. Thiamine deficiency causes decreased energy production because
(a) It is required for the process of transamination
(b) It is a co-factor in oxidative reduction
(c) It is a co-enzyme for transketolase is pentose phosphate pathway
(d) It is a co-enzyme for pyruvate dehydrogenase & alpha ketoglutarate dehydrogenase

118. Which of the following drugs are often found in both prescription and over-the-counter nasal decongestands
(a) Alpha 2 agonists
(b) Alpha 1 agonists
(c) Alpha 1 antagonists
(d) Beta 2 agonists

119. What is the surface tension of water of at 25°C
(a) 58 dyne/cm
(b) 68 dyne/cm
(c) 72 dyne/cm
(d) 82 dyne/cm

120. Acridine and xanthene rings are related to each other in that.....

(a) Xanthene is oxygen isoster of acridine
(b) Acridine is oxygen isoster of xanthene
(c) Xanthene is nitrogen isoster of aciridine
(d) Xanthene is sulfur isoster os acridine

121. Colligative properties depend on.....

(a) Structural arrangement of atoms within the molecules of solute and solvent
(b) The number of solute particles is solution
(c) The physical properties of the solute particles dissolved is solution
(d) Sum of the corresponding properties of individual atoms or functional group within the molecules

122. In polarography.....current must be blocked

(a) Residual (b) Migration (c) Diffusion (d) None

123. The propellant commonly used in topical aerosols is

(a) Trichloromonfluoromethane
(b) Trifluromonfluroethane
(c) Dichlordifluromthane
(d) Isopropyl alcohol

124. Which of the following increase systolic and diastolic pressure in normal patient

(a) Epineherine
(b) Norepinephrine
(c) Tyramine
(d) Phenylephrine

125. A large Reynold number is indication of which type of flow

(a) Smooth and stream line flow
(b) Laminar flow
(c) Steady flow
(d) Highly turbulent flow

End of paper

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ANSWER KEY GPAT 2016

1-b	2-a	3-a	4-b	5-c	6-b	7-c	8-d	9-c	10-d
11-b	12-b	13-c	14-b	15-b	16-b	17-d	18-b	19-c	20-b
21-b	22-b	23-d	24-b	25-a	26-b	27-a	28-a	29-b	30-b
31-a	32-c	33-a	34-b	35-c	36-b	37-c	38-d	39-c	40-b
41-b	42-b	43-c	44-a	45-a	46-a	47-b	48-d	49-a	50-d
51-b	52-b	53-a	54-b	55-d	56-b	57-b	58-a	59-b	60-d
61-a	62-b	63-d	64-c	65-b	66-b	67-c	68-b	69-a	70-b
71-d	72-a	73-d	74-b	75-b	76-d	77-b	78-c	79-b	80-a
81-b	82-b	83-d	84-b	85-a	86-b	87-d	88-c	89-c	90-b
91-b	92-b	93-b	94-c	95-c	96-d	97-a	98-b	99-a	100-c
101-c	102-c	103-d	104-c	105-c	106-c	107-b	108-b	109-c	110-a
111-a	112-a	113-a	114-b	115-a	116-a	117-d	118-b	119-c	120-a
121-b	122-b	123-b	124-c	125-d					

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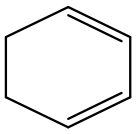
QUESTIONS PAPER

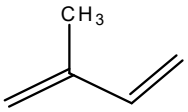
1. In a free radical reaction, free radicals are formed at

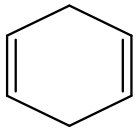
   (a) Initiation step (b) Propagation step

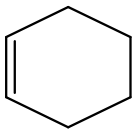
   (c) Termination step (d) Both (a) and (b)

2. Which of the following dienes can undergo Diels–Alder reaction most readily

   (a) 

   (b) 

   (c) 

   (d) 

3. Separating techniques such as gas chromatography and liquid chromatography are not appropriate for separation of amino acids. Select correct reason from the following

   (a) Amino acids high polarity substances

   (b) Amino acids are low polarity substances

   (c) Amino acids are non polar substances

   (d) Amino acids lowly charges substances

4. When trans-2-butene is treated with bromine an anti-addition of bromine yields meso- 2,3- dibromobutane. Select the correct statement regarding the reaction from the following

   (a) The reaction is stereoselective as well as stereo specific

   (b) The reaction is stereoselective and not stereo specific

   (c) The reaction is nonstereoselective as well as non stereo specific

   (d) The reaction is stereo specific and not stereo selection

5. Reduction of imines to give amines in protic solvents can be carried out by one of the following reagents. Select the correct reagent

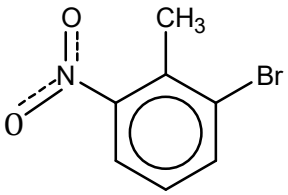
   (a) Sodium hydride

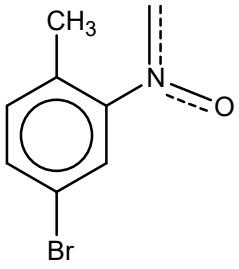
   (b) Sodium chloride and HCl

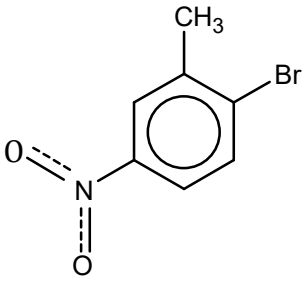
   (c) Lithium aluminium chloride

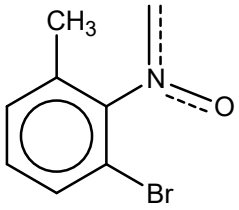
   (d) Sodium cyanoborohydride

6. In the reaction of 2-nitrotoluene with bromine in presence of iron, which of the product shownbelow is the most abundant (major) product

(a) 

(b) 

(c) 

(d) 

7. Which of the following cannot react as a nucleophile

(a) $(CH_3)_4N^+$
(b) CH_3NH_2
(c) $(CH_3)_2NH$
(d) $(CH_3)_3N$

8. Which of the following compounds will be oxidized by CrO_3 in acid

(a) 4-Methylcyclohexene
(b) 3-Methyl 3-hydroxyclohexanone
(c) 4,4-Dimethyl-1-methyl-1,3-cyclohexandiol
(d) 2-Methylcyclohexanone

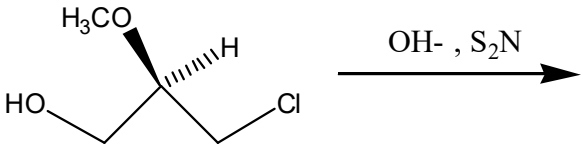
9. Which of the following compounds absorbs at the longest wavelength

(a) 1,3,5-Hexatriene
(b) 1,3,5,7-Octatetraene
(c) 1,7-Diphenyl-1,3,5-heptatriene
(d) 1,6-Diphenyl-1,3,5-heptatriene

10. Which of the following reagents will reduce a disubstituted alkyne to trans-alkene

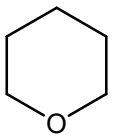
(a) Na and NH_3
(b) $LiAlH_4$
(c) B_2H_6
(d) Pd and H_2

11. Which of the following statement is true about following reaction



(a) The product will not have a stereo center
(b) The product will have R configuration
(c) The product will not have S configuration
(d) The reaction will happen with racemisation

12. Which functional group is present in the molecule shown below



(a) Amide (b) Alcohol (c) Ester (d) Ether

13. Match the following agents that cause cancer with the preferable sites for where it might cause

1. Arsenic	(a) Prostate
2. Benzene	(b) Angiosarcoma
3. Cadmium Compounds	(c) Leukemia
4. Vinyl chloride	(d) Hemangiosarcoma

(a) 1 - d; 2 - c; 3 - a; 4 -b (b) 1 - b; 2 - a; 3 - c; 4- d

(c) 1 - c; 2 - d; 3 - b;4 - a (d) 1 - a; 2 - b; 3 -d; 4 - c

14. If the pKa of lidocaine is 7.9 and pH of the infected tissue is 8.9, the fraction of drug in the ionized form will be

(a) 10% (b) 1% (c) 90% (d) 99%

15. Which among the following are the salient features of Glucocorticoids

(a) Gets combined with highly specific cytosolic glucocorticoids

(b) They promote phagocytosis by macrophages

(c) Releases of lytic enzymes

(d) Increases lipid eicosanoids and prostaglandin gene

16. The most commonly used test of sensitivity to antimicrobial agent is

(a) Kirby- Bauer techniques (b) Immunodiffusion techniques

(c) Qudin procedure (d) Ouchter- Ion procedure

17. Bulk product is defined as

(a) Product completing all processing stages but not necessarily final packing

(b) A product ready for final dispatch

(c) Raw material used for making final dosage form

(d) A defined quantity of raw material from the same batch

18. Product,.....and Promotion are four 'P's of marketing

(a) Price and Place (b) Place

(c) Process (d) Production, Process, Price, Production

19. Insulin and thyroxin arrive at an organ / tissue / cell at the same time. Thyroxine causes an effect on the organ but insulin does not because

(a) The organ cell have receptors for thyroxine but not for insulin

(b) Thyroxin is a lipid -soluble hormone and insulin

(c) The target cell in the organ have up-regulated for

(d) Thyroxin is local hormone and insulin is a circula

20. Which among the following is an incorrect statement with regard to the drug Dantrolene

(a) It is a pyrazoline derivative (b) It is an imidazoline analogue

(c)It is a nitrophenylfurfurylidene derivative (d)It is a skeletal muscle relaxant

21. Diazepam is not suitable for peroral sustained release form since

(a) Is not absorbed in lower intestine

(b) It has biological half life greater than twelve effects hour

(c) It has biological half life less than one hour

(d) It has undesirable side effects

22. Antioxidant used as blocking agent in sterile product is

(a) Ascorbic acid esters (b) Sodium bisulphate

(c) Ascorbic acid (d) EDTA

23. Many mediators have been implicated in the asthmatic response. The clinical efficacyof pharmacologic intervention with inhibitors or antagonist of the mediators involves following category - except

(a) Platelet activating factors (b) Anticholinergics

(c) Antihistaminics (d) Cytokine inhibitors

24. Match the following adrenergic drugs with their receptor affinity

(1) Epinephrine (a) More alpha 1, no beta 1, beta 2 & dopamine

(2) Noradreanline (b) More alpha 1 & beta 1, less beta 2, no dopamine

(3) Phenylephrine (c) More beta 1 & Beta 2, no alpha 1 and dopamine

(4) Dobutamine (d) More alpha 1 & beta 1 , no beta 2 & dopamine

(a) a - 2; b - 4; c - 1; d -3 (b) a - 1; b - 3; c - 4; d- 2

(c) a - 3; b - 1; c - 2;d - 4 (d) a - 4; b - 2; c -3; d - 1

25. If the drug substance has been substituted wholly or in part by another drug orsubstance, it is called as

(a) Spurious drug (b) Adulterated drug (c) Misbranded drug (d) Mixed drug

26. One of the principle upon which HPLC detector functions is

(a) Redox property of solute is the basis for functioning of Electrochemical detectors

(b) Fluorimetric detector has high selectivity and low sensitivity

(c) Small difference in Refractive Index of mobile phase permit precise measurements in Refractive index detectors

(d) UV detector function based on its ability to detector

27. Methanolic extract of a crude drug powder when treated with magensium turnings and concentrated hydrochloric acid turned the solution magenta coloured. The test is termed as

(a) Shinodatest (b) Van Urk's Test

(c) Keller Killiani test (d) Vitali Morin Test

28. Etoposide and Teniposide are the semisynthetic derivatives of

(a) Myrrhabolic acid (b) Podophyllotoxin

(c) Abietic acid (d) Umbelliferone

29. The thymus secretes several hormones related to the immunity. These hormones promote the maturation of T lymphocyte cells. These hormones are

1. Thymosin
2. Thymichumoral factor
3. Thymic factor
4. Interleukins

(a) Only 1, 2 (b) 1, 2 and 3 (c) only 3 (d) Only 4

30. For the measurement of particle size of powders, the distance measured between two tangents on opposite sides of the particle parallel to some fixed direction is called

(a) Feret diameter (b) Martin diameter

(c) Projected area diameter (d) Edmundson diameter

31. Beta oxidation of fatty acids takes place in

(a) Mitochondria (b) Cytoplasm

(c) Nucleus (d) Choroplast

32. Which of the following genera is not the source for tropane alkaloids

(a) Datura (b) Duboisia

(c) Nicotiana (d) Atropa

33. The useful variable from in vitro dissolution test data for IVIVC includes

(a) t50 % - t63.2 (b) Sampling interval

(c) Sample volume (d) Volume of dissolution fluid

34. In respect of female reproductive cycle, which of the following statements are correct

1. The female reproductive cycle consists of menstrual phase, a pre-ovulatory phase,ovulation and a post ovulatory phase

2. During the menstrual phase, small secondary follicles in the ovary begin to enlargewhile the uterus is shedding its lining
3. During the pre-ovulatory phase, a dominant follicle continues to grow and begins tosecret estrogen and inhibin while the uterine lining begins to rebuild
4. Ovulation results in the release of an ovum and the shedding of the uterus lining tonourish and support the release ovum
5. After ovulation, a corpus luteum forms the ruptured follicles and begins to secreteprogesterone and estrogen, which it will continue to do throughout pregnancy if the eggis fertilized
6. If pregnancy does not occur, then the corpus luteum degenerates into a scar knownas corpus albicans and uterine lining is prepared to be shed again

(a) 1, 2, 3 and 6 (b) 2, 3, 4and 6
(c) 1, 2, 4 and 5 (d) 1, 4, 5 and 6

35. Apparent volume of distribution will be highest in case of the drug with % plasmaprotein binding
(a) 10 (b) 89 (c) 50 (d) 68

36. To rule out the probability of dose dumping from an oral CR dosage form, USP hasincluded which sampling time point for in vitro dissolution test where D is normal dosing interval
(a) 0.50D (b) 0.25D (c) 50-1.0D (d) 1.0-2.0D

37. Which of the following statement regarding cerebral hemisphere is true
(a) The right and left hemisphere are symmetrical
(b) This right more important for spoken and written language
(c) The left hemisphere is more important for musical and artistic awareness
(d) Hemispheric lateralization is more pronounced in male than in female

38. Which among the following is a Class-I method, used for rendering a solution of drug isotonic with body fluids
(a) Cryoscopic method (b) White-Vincent method
(c) Sprowlsmethod (d) Hammarlund method

39. (Weight in pounds/150) * Adult Dose = Child dose. The above formula is known as _____ in Posology
(a) Youngs formula (b) Dillings formula
(c) Clarkes formula (d) Frieds formula

40. The type of particle diameter obtained by microscopic method of evaluation is
(a) Projected diameter (b) Surface –volume diameter
(c) Volume - surface diameter (d) Stokes diameter

41. Naphazoline

(a) Is used for relief ofnasal congestion

(b) Exhibits peripheral beta-adrenoceptor stimulant

(c) Is a pyrazolinederivative

(d) Chemically, is 1H Imidazole, 3,4 -dihydro- 2 –(3-naphthylmethyl) monohydrochloride

42. A patient receiving warfarin develops rheumatoid arthritis. Which one of the following drugs would be Contraindicated

(a) Ibuprofen (b) Tolmetin (c) Aurothioglucose (d) Aspirin

43. A crude drug powder was heated with ferric chloride, water and concentrated hydrochloric acid followed by extraction with chloroform. The chloroform layer was treated with ammonia, the ammonical layer turned pink. The test indicates presence of_____ phytoconstitutent

(a) Anthraquinone-C-glycosides (b) Flavanones

(c) Cardiac glycosides (d) Saponin glycosides

44. The first vaccine was discovered by

(a) DeBary (b) Paul Ehrlich (c) Robert Koch (d) Edward Jenner

45. Type IV dissolution apparatus as per USP is

(a) Flow through cell (b) Paddle type apparatus

(c) Reciprocating cylinder (d) Paddle over dsk apparatus

46. Hoeppler viscometer is a type of

(a) Falling sphere viscometer (b) Capillary viscometer

(c) Cup and Bob viscometer (d) Cone and plate viscometer

47. Following are the list of various inherited metabolic disorders that can affect functioning of liver

a. Primary biliary cirrhosis

b. Glycogen storage disease

c. Gilbert's syndrome

d. Haemochromatosis

e. Wilson's disease

(a) a, b, c, d (b) b, c, d, e (c) a, c, d, e (d) a, b, d, e

48. In relation to buccal and sublingual route of administration which of the following statement is incorrect

(a) Absorption through epithelium is not affected by partition coefficient of the Drug

(b) Drug absorption by these routes by pass first pass metabolism

(c) There is an optimum log P for sublingual absorption

(d) These are preferred routes for anti-anginal drug

49. Which among the following statements describing surface activity for surfactants is incorrect

(a) Increase in length of hydrocarbon chain decreases surface activity

(b) Increase in ethylene oxide chain of polyoxy ethyl alcohol Increase in surface activity

(c) Increase in surface activity results in decrease length of hydrocarbon chain

(d) Relationship between hydrocarbon chain length andhydrphobicity

50. Surface tension is categorized as a/an _____ factor

(a) Capacity (b) Intensive (c) Extensive (d) Tolerance

51. Which of the following gums is obtained from endosperm

(a) Guar gum (b) Acacia gum (c) Tragacanth gum (d) Sterculia gum

52. High lightening differences among brands within the same product category is_____

(a) Product brand (b) Brand launch (c) Product differentiation (d) Branding

53. Hot stage microscopy is an important tool in preformulation studies for the study of

(a) Pseudopolymorphism (b) Paricle size measurement

(c) Microbial contamination (d) Compaction behaviour

54. In Bismuth subgallate suppositories B.P.C, when no strength of the drug is specified, B.P.C directs _____ bismuth subgallate per suppository

(a) 300 mg (b) 200 mg (c) 100 mg (d) 400 mg

55. The Michaehis-Menten hypothesis

(a) Postulates the formation of an enzymesubstrate complex

(b) Enables us to calculate the isoelectric point ofan enzyme

(c) States that the rate of a chemical reaction maybe independent of substrate concentration

(d) States that the reaction rate is proportional tosubstrate concentration

56. The largest gene in human is _____

(a) Dystrophin (b) Titin (c) Insulin (d) Phosphofructokinase

57. Which of the following techniques is not useful to detect polymorphs

(a) DSC (b) HPLC (c) PXRD (d) Melting point determination

58. Which of the following constituents is responsible for colour of shellac

(a) Shelloic acid (b) Laccaic acid (c) Aleurotic acid (d) All of the above

59. Match the following drugs with alteration they produces in structural-functional of kidney

(1) Aminoglycoside Anitibiotics (A) Glomerular abnormality

(2) ACE inhibitors (B) Tubalar epithelial cell Demage

(3) Methotrxate (C) Hemodynamic Mediated kidney injury

(4) NSAIDs (D) Obstructure nephrophathy

(a) 1 - B; 2 -C ; 3 - D; 4 -A (b) 1 - A; 2-B; 3 - C; 4- D

(c) 1 - C; 2-D; 3 - A; 4- B (d) 1 - D; 2-A; 3 - B; 4- C

60. Hixon Crowell's cube root law of dissolution states that

(a) There is a change in particle size and surface area during dissolution of drug

(b) Dissolution process is controlled by diffusion of molecules/ions

(c) High free energy of activation is required for solution

(d) Renewal of surface fluid layer around drug particle

61. All of the following statements regarding estrogen therapy in postmenopausal women are true EXCEPT

(a) It restores the loss of bone mass due to osteoporosis

(b) It may be useful to treat vasomotor symptoms

(c) Administration in a regimen including a progestin

(d) It is useful in the treatment of atrophic vaginities

62. Chapter IV of which law states that experiments on animals are avoided wherever it is possible to do so; as for example; in medical schools, hospitals, colleges and the like, if other teaching devices such as books, models, films and the. like, may equally suffice. Also, that experiments on larger animals are avoided when it is possible to achieve the same results by experiments upon small laboratory animals like guinea- pigs, rabbits, frogs and rats

(a) The prevention of cruelty to animal act,1960

(b) The Pharmacy Act, 1948

(c) Drugs and Cosmetics Act, 1940

(d) Medicinal and Toilet Preparations Act, 1955

63. Which among the following rules about spin - spin coupling and bond multiplicities are correct with regard to NMR spectra

(a) Coupling constant rarely exceeds 20 cps whilechemical shifts are over 1000 cps

(b) Spin - Spin interactions are dependent of strength of the applied field

(c) Coupling constants increase with distance

(d) Equivalent nuclei interact with each other to show interaction

64. Most accepted mechanism for developing bacterial resistance to sulphonamides is

(a) An alternative metabolic pathway for synthesis of essential

(b) An increasing capacity to metabolize the drug

(c) Increased antagonism of drug

(d) An alteration in enzyme that utilizes PABA

65. All the dopaminergic agonists having affinity for D2 receptors are clinically used in following conditions except

(a) Obsessive-compulsive disorder

(b) Hyperprolactinemia

(c) Acromegaly

(d) Parkinsonism

66. The labelling instruction "To be diluted 20 times its volume with water" indicates the dispensed product is a

(a) Mixture (b) Elixir (c) Linctus (d) Mouthwash

67. Which among the following is a structural variant of GABA and is used as a muscle relaxant

(a) Metocurine (b) Tybamate (c) Baclofen (d) Cyclobenzaprine

68. A steroidal phyto constituent lowering blood sugar is obtained from

(a) *Momordica charantia* (b) *Quillaja saponaria*

(c) *Dioscorea deltoidea* (d) *Glycyrrhiza glabra*

69. Which of the following drug is associated with the reaction of extreme photosensitivity

(a) Niacin (b) Digitalis (c) Tetracycline (d) Fluoroquinolones

70. Which among the following statements related to Ceric sulphate as oxidizing agent, as titrant are correct

(a) Ce (IV) during reaction exists as an anionic complex in media of sulphuric acid

(b) Ionic equation is $Ce^{3+} \rightarrow Ce^{2+} + e^{-}$

(c) Formal potential of Ce(III) Ce (II) couple is 1

(d) Ce (IV) does not permit use of HCl as reducing media

71. A labeled piece of DNA that is complementary to the sequence of DNA you are interested in, say the gene you are trying to put into cells, is called as

(a) A probe (b) A receptor (c) A epitope (d) A target

72. As per first schedule of Drugs and Cosmetics Act ,1940, following is name of the book under Siddha system of medicine

(a) Arka Prakasha (b) Yog Ratnakar (c) Nagamuni (d) Vrinda Chikitsa

73. Amantidine is helpful in Parkinson's disease because

(a) It liberates dopamine from nerve endings (b) It decreases cholinergic activity

(c) It is metabolized into dopamine (d) It increases adrenergic activity

74. An intermediate 3- Chloroaniline 4, 6 - disulphonamide on heating with formic acid yields a compound
(a) 6 chloro 2H -1,2,4benzothiadiazine 7 sulphonamide
(b) 3 chloro-2H 1,2,4- benzothiadiazine 7 sulphonamide
(c) Used in treatment of urinary tract infections
(d) Used as antibacterial

75. Acetyl Choline is hydrolyzed by enzyme
(a) Acetylase (b) Cholinase (c) Acetylcholinesterase (d) Transferase

76. Rubella virus is associated with disease
(a) Progressive encephalitis (b) Enterovirus infection
(c) Yellow fever (d) Brucellosis

77. Which among the following electronic systems are not involved in the origin of UV spectrum
(a) s and p shell electrons (b) sigma and pi electrons
(c) Charge transfer electrons (d) d and f shell electrons

78. Which of the following is not a thermoplastic resin
(a) Phenolic plastic resin (b) Polystyrene
(c) Polyethylene (d) Polypropylene

79. Choose the right combination from the following
(1) Diacytic stomata and sessile Trichome (A) Datuar
(2) Paracytic stomata and Unicellular and multi cellular (B) Vasaka
(3) Anomocytic stomata and Unicellular and multi cellular Trichome (C) Senna
(4) Anisocytic stomata and Multicellular covering trichome (D) Digitalis
(a) 1-B, 2-C, 3-D, 4-A (b) 1-C, 2-D, 3-A, 4-B
(c) 1-A, 2-D, 3-B, 4-C (d) 1-D, 2-B, 3-A, 4-C

80. Pharmaceutical alternatives possess
(a) Indentical therapeutic moiety/precursor but not in the same amount/dosage form
(b) Same amount of therapeutic moiety
(c) Same dosage form
(d) Same formulation ingredients in exactly same amount of dose

81. Topical application of timolol to the eye would be expected to induce which of the following
(a) Decreased formation of aqueous humor (b) Miosis
(c) Mydriasis (d) Increased outflow of aqueous humor

82. The major component of liquid glucose is .....and is prepared from _____

(a) Maltose, Pectin (b) Dextrin, Starch (c) Dextrose, Starch (d) Glucose, Starch

83. Which of the following formulations under ASU system are offered infinite period of shelf life in D and C Act

(a) Asava&Arishta (b) Churna (c) Ghutika (d) Kwatha

84. Which of the following is an example of hemiesters anionic surfactant for pharmaceutrical emulsions

(a) Sulfosuccinates (b) Sarcosinates (c) Taurates (d) Lactylates

85. The major differences between the prokaryotic and eukaryotic protein synthesis mechanisms are in which part of the process

(a) The initiation of synthesis (b) The chain elongation process
(c) The chain termination process (d) None of the above

86. In DNA replication the newly added nucleotide is joined to the growing DNA strand by an enzyme

(a) DNA polymerase (b) DNA ligase
(c) Restriction endonuclease (d) Reverse transcriptase

87. Glycosides are condensation products of

(a) Protein + aglycone (b) Sugar + Protein
(c) Sugar + aglycone (d) Fats + aglycone

88. Which of the following dosage form of digoxin will provide greater bioavailability based onvalue of F

(a) F equals 1.0 (b) F equals 0.32 (c) F equals 0.62 (d) F equals 0.77

89. The process by which the formed elements of blood develop is call as hemopoiesis. In the process of hemopoiesis the stem cells are converted in to myeloid stem cell and subsequently differentiated and are developed into precursor cells. Match the following precursor cells with the formed elements of blood from which they are formed.

(1) Reticulocyte	(A) Platelets
(2) Megakaryoblast	(B) Macrophages
(3) Myeloblast	(C) Erythrocytes
(4) Monoblast	(D) Neutrophils

(a) 1-C, 2-A, 3-D, 4-B (b) 1-A, 2-C, 3-B, 4-D
(c) 1-B, 2-D, 3-C, 4-A (d) 1-D, 2-B, 3-A, 4-C

90. Using Young's rule, calculate the dose for a 5 year old child if the adult dose is 340mg

(a) 200 mg (b) 100 mg (c) 400 mg (d) 800 mg

91. Which among the following statements on electro analytical methods are correct

(a) Measures conductance between two electrodes with AC powered Wheatstone bridge
(b) Polarography involves plotting of conductance – voltage

(c) Potentiometry involves application of Ilkovicequation

(d) Coulometry involving application of Nernst law relating equivalence between quantity of electricity passed and amount of compound generated at electrodes

92. Chemical interferences are common than spectral interferences due to

(a) Formation of compounds of low volatility (b) Ionization in flames

(c) Increase in rate of atomization (d) No shift in ionization equilibrium

93. Phase 0 studies means

(a) In vitro studies

(b) Part of phase I studies of clinical trials

(c) First in human microdosing studies

(d) Studies carried out on small number of animals

94. Condensation product of Ethyl isopentyl ester of diethyl malonic acid with urea and sodium ethoxide yields

(a) Amylobarbitone (b) Phenobarbitone

(c) Pentobarbitone (d) Quinobarbitone

95. Clavulanic acid is

(a) Inactivates bacterial - lactamase (b) Protien inhibitor of peptidoglycan synthesis

(c) Specific for gram negative bacteria (d) Inhibitor of 50S ribosomal subunit

96. The method by which different constituents of a liquid mixture can be separated without decomposition of the constituents is

(a) Distillation under reduced pressure (b) Molecular distillation

(c) Steam distillation (d) Fractional distillation

97. The preferred rheological behavior of Pharmaceutical suspensions is that of

(a) Pseudoplasticity and thixotrophy (b) Pseudoplasticity

(c) Dilatancy and thixotrophy (d) Pseudoplasticity and rheopexy,

98. An inventory turnover of ..... a year is considered satisfactory

(a) Four to six times, Six (b) To eight times

(c) One to two times (d) None of the above

99. The number of glucopyranose units in the structure of alpha cyclodextrins are

(a) 8 (b) 9 (c) 7 (d) 6

100. The compound 2 - (Diethylamino) ethyl [bicyclohexyl] - 1-carboxylate hydrochloride is

(a) Dicycloverine (b) Diphenhydramine

(c) Both nicotinic and specific antispasmodic, (d) Diagonistic agent for diagnosis of thyroid gland,

101. In new product development process, after analysis of business next step to be taken is _____

(a) Test marketing (b) Penetration marketing

(c) Brand marketing (d) Individual marketing

102. Which of the following alkaloid (form) is used to treat migrane

(a) VInca (b) Coca (c) Ergot (d) Belladonna

103. Free flowing powders show a flatter cone and have _____

(a) Smaller angle of repose (b) Larger angle of repose,

(c) Intermediate angle of repose (d) None of the above,

104. The WIPO is the specialized agency of the United Nations. It promotes protection of _____throghout the world

(a) Intellectual properties (b) World properties

(c) Pharmaceutical organizations (d) Finace companies

105. Herpesviruses are large encapsulated viruses that have double stranded DNA genome thatencodes approximately 70 proteins. It causes acute infection followed by latent infection in which virus persist in noninfectious form with periodic reactivation and shedding of infectious virus. Following are the examples of such herpesvirus –except

(a) Epstein-Barr Virus (b) Herpes simplex

(c) Varicella Zoster (d) Cytomegalovirus

106. A fatty acid not synthesized in human body and has to be supplied in diet is

(a) Stearic acid (b) Oleic acid (c) Palmitic acid (d) linolenic acid

107. Chemical class of drugs that are susceptible to oxidation are

(a) Esters (b) Lactam (c) Sterols (d) Carbamates

108. The only analgesic acting centrally is _____

(a) Methadone (b) Naloxane (c) Tramadol (d) Naloxane

109. Neuropathy is adverse effect of

(a) Isoniazid (b) Ethambutol (c) Pyrazinamide (d) Dapsone

110. As per I.P. if the solubility range of a solute is 30 to 100 parts, it will be

(a) Soluble (b) Freely soluble (c) Sparingly soluble (d) Slightly soluble

111. SDS is used in PAGE of a mixture of proteins for their efficient separation on the gel. SDS, in the experiment is used to _____

(a) Have uniform charge density on the proteins (b) Stabilize the proteins

(c) Decrease the surface tension of buffer (d) Solubilize the proteins

112. Indicate which of the following statements is true

(a) A weakly acidic drug is unionised when pH of the solution is at last 2 pH units below its pKa

(b) Acidic drugs are noninonized at pH 9

(c) Acidic drugs are less soluble in alkaline solution

(d) The higher the pKaof a weak acid, the stronger is acid

113. Dissemination of cancer occurs through one of the following pathway - except

(a) Migration (b) Direct seeding (c) Lymphatic spread (d) Hematogenous spread

114. Which of the following alkaloids has hypotensive activity

(a) Emetine (b) Quinine (c) Reserpine (d) Papaverine

115. Which of the following is a characteristic of cytochrome P-450

(a) Catalyzes aromatic and aliphatic hydroxylations

(b) Located in the lipophilic environment of mitochondrial membrane

(c) Catalyzes O-, S-, N methylation reactions

(d) Catalyzes conjugation reactions

116. The Michalis-Menten equation for standard for saturated active transport system is-

(a) $V_{max} = k_{cat}[E_0]$ (b) $V_{max} = k_m$ (c) $V_{max} = k_m[S]$ (d) None

117. Which among the following describe the characteristic features of Tetracyline

(a) Undergoes epimerization in solutions having intermediate pH range

(b) Forms Anhydroustetracycline in presence of acidic

(c) Forms Minocycline in basic medium

(d) Forms stable chelate complexes with potassium ions

118. Cells that contribute for immune system are

1. T Lymphocytes
2. Eosinophil
3. B Lymphocytes
4. Dendritic cells
5. Erythrocytes
6. Natural killer cells

(a) 1, 3, 4 and 6 (b) 1, 2, 4 and 6

(c) 1, 3, 5 and 6 (d) 1, 2, 5 and 6

119. Dielectric constant of Ethanol at room temperature is almost equal to

(a) 24 (b) 48 (c) 54 (d) 72

120. Foaming during liquid filling can be reduced by following ways, except

(a) Increase in speed of the filling line (b) Minimised product turbulence

(c) Closed system filling (d) Defoaming device

121. If the excitation energy of the resonance level is 2.10 eV (when hc=12,330) then the wave-lengthof resonance line of sodium atoms is _____

(a) 577.2 nm (b) 587.2 nm (c) 567.2 nm (d) 597.2 nm

122. After vascular injury, platelets encounter extracellular matrix constituents such as collagen and adhesive glycoprotein. On contact with these proteins platelets undergo

1. Adhesion
2. Secretion
3. Aggregation
4. Degradation

(a) 1, 2 and 3 (b) 1, 2 and 4 (c) 1, 2, 3 and 4 (d) 1, 2 and 4

123. A reporting relationship in which an employee receives orders from, and reports to, only one supervisor is known as _____

(a) Unity of command (b) Centralisation

(c) Decentralisation (d) Line of authority

124. In humans end product of purine catabolism is

(a) Uric acid (b) Urea (c) Purine oxide (d) Xanthine

125. Which of the following adverse effects is caused by thioridazine

(a) Tardive dyskinesia (b) Constipation

(c) Orthostatic hypotension (d) All of the above

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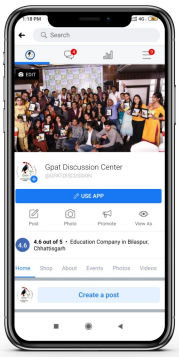

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ANSWER KEY GPAT 2017

1-d	2-a	3-a	4-a	5-d	6-b	7-a	8-c	9-d	10-a
11-a	12-d	13-a	14-c	15-a	16-a	17-a	18-a	19-b	20-a
21-b	22-a	23-a	24-a	25-a	26-a	27-a	28-b	29-b	30-a
31-a	32-c	33-a	34-a	35-a	36-b	37-c	38-a	39-c	40-a
41-a	42-d	43-a	44-d	45-a	46-a	47-b	48-a	49-a	50-b
51-a	52-c	53-a	54-c	55-a	56-a	57-b	58-b	59-a	60-a
61-a	62-a	63-a	64-a	65-a	66-d	67-c	68-a	69-c	70-a
71-a	72-c	73-a	74-a	75-c	76-a	77-a	78-a	79-a	80-a
81-a	82-c	83-a	84-a	85-a	86-a	87-c	88-a	89-a	90-b
91-a	92-a	93-c	94-a	95-a	96-b	97-a	98-a	99-d	100-a
101-a	102-c	103-a	104-a	105-a	106-d	107-c	108-a	109-a	110-c
111-a	112-a	113-a	114-c	115-a	116-a	117-a	118-a	119-a	120-a
121-b	122-a	123-a	124-a	125-d					

GPAT QUESTIONS

1. A technique of using very small metal particles coated with desired DNA in the gene transfer is called:-

(a) Microinjection (b) Biolistic (c) Liposome mediated (d) Electroporation

2. Arrange the following steps in sequence of their order for production of recombinant Insulin:-

A. Fusion of A and B chains for disulphide bond.

B. Cynogen bromide treatment to remove methi onine and â galactosidase.

C. Introduction of A and B chain in the plasmid containing â galactosidase g ene.

D. Synthesis of A and B chain in E coli.

(a) $a \rightarrow b \rightarrow d \rightarrow c$ (b) $d \rightarrow c \rightarrow a \rightarrow b$ (c) $c \rightarrow d \rightarrow b \rightarrow a$ (d) $b \rightarrow a \rightarrow d \rightarrow c$

3. Motif is represented by:-

(a) Commas repeated on the lattice (b) 3D translational periodic arrangement of points

(c) Geometric shapes of lattice (d) Centre of symmetry in lattice

4. **Statement 1 :** Vortex formation can be minimized by push pull mechanism.

Statement 2 : Vortex formation reduces the mixing intensity by increasing the velocity of impeller.

(a) True, False (b) True, True (c) False, False (d) False, True

5. Which of the following fluid can be considered as an ideal fluid?

(a) Viscous fluid (b) Non-viscous fluid (c) Compressible fluid (d) All of these

6. Which of the following agencies is not classified as an 'executive agency' for administration of the act under the provision of Drugs and Cosmetics Act 1940?

(a) Licensing authority (b) Drug inspectors

(c) Drugs Consultative Committee (d) Customs collectors

7. As per Factories Act 1948, in CHAPTER VI dealing with working hours of adults, no adult worker shall be required or allowed to work in a factory for more than _____ hours in a week.

(a) 30 (b) 40 (c) 48 (d) 56

8. Henri Fayol's principle "Espirit de corps" means:-

(a) Corporate objective (b) Group objective (c) Team activity (d) Team spirit

9. How customer's bias about the product will influence the marketing communication?

(a) Positive effect (b) Negative effect

(c) No effect (d) Both positive and Negative

10. Which of the following is not patentable in India as per The Patents Act 1970?

(a) New product
(b) New process
(c) New use of existing drug
(d) New process for existing drug

11. Match the following enzymes in Column I with their respective functions under Column II

Column I	Column II
i. DNA ligase	(p) Synthe size a DNA copy of RNA
ii. Alkaline phosphatase	(q) Forms a bond between 3' –OH and 5'-PO_4
iii. Reverse transcriptase	(r) Removes terminal PO_4 from 3' or 5'end of DNA
iv. Polynucleotide kinase	(s) Adds phosphate to 5' –OH end

(a) i-r, ii-s, iii-p, iv-q
(b) i-p, ii-q, iii-r, iv-s
(c) i-q, ii-r, iii-p, iv-s
(d) i-s, ii-p, iii-q, iv-r

12. Which of the following replacement of amino acid in a protein may produce greatest change in its conformation?

(a) Ser → Thr (b) Glu → Val (c) Gln → Tyr (d) Phe → Ile

13. The hexose monophosphate pathway produces distinctively two useful products. Identify these products with the ratio in which they are produced.

(a) One NADPH to two ribose-6-phosphate
(b) Two NADPH to one ribose-5-phosphate
(c) Two NADPH to one ribulose-5-phosphate
(d) Two NADPH to one fructose-6-phosphate

14. The correct statement about Vitamin D is:-

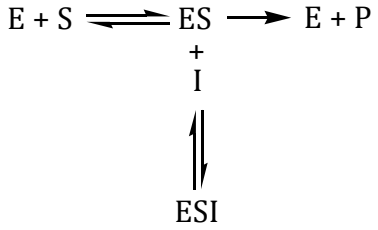
(a) The oral administration of 1, 25-dihydoxycholecalciferol is required in chronic renal failure
(b) 25-Hydroxycholecalciferol is the active form of the vitamin
(c) Vitamin D antagonizes the effects of parathyroid hormone
(d) A deficiency of vitamin D causes an increase in calcitonin secretion

15. All of the following enzymes are used in ELISA except:-

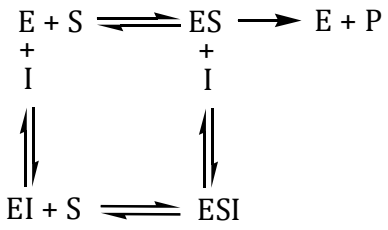
(a) Glucose oxidase
(b) Alkaline phosphatase
(c) Coagulase
(d) β-galactosidase

16. Which of the following equilibrium suggests noncompetitive inhibition of enzyme E for conversion of substrate S to product P with inhibitor I?

(a)



(b)



(c) $E + S \rightleftharpoons ES \rightarrow E + P$, $E + I \rightleftharpoons EI$

(d) $E + S \rightleftharpoons ES \rightarrow E + P$, $P + I \rightleftharpoons PI$

17. Which method is used for the Limit test for arsenic?
(a) Gutzeit method (b) Oswald method
(c) Arrhenius method (d) Karl-Fischer method

18. The agent used to prevent the dental carries is:-
(a) Sodium fluoride (b) Strontium chloride
(c) Zinc chloride (d) Dicalcium phosphate

19. Which of the following definitions of an asymmetric reaction is the most accurate?
(a) A reaction that creates a new chiral centre in the product
(b) A reaction that involves a chiral reagent
(c) A reaction which creates a new chiral centre with selectivity for one enantiomer/ diasatereoisomer over another
(d) A reaction that is carried out on an asymmetric starting material

20. What software programme is used to determine the Verloop steric parameter in QSAR?
(a) Alchemy (b) Chem3D (c) Sterimol (d) Chem-Draw

21. The oral oligosaccharide hypoglycemic agent, which is administered at the start of the meal is:-
(a) Pioglitazone (b) Miglitol (c) Acarbose (d) Glimepride

22. Which functional group is crucial for anti-malarial activity of artemisinin?
(a) Aldehydic functional group (b) Ethylene bridge
(c) Ketonic functional group (d) Peroxide bridge

23. Select the drug which exhibits dual alpha and beta adrenergic receptor agonists activity.
(a) Terbutaline (b) Clonidine (c) Metaproterenol (d) Dobutamine

24. Appropriate hybridization schemes for the C atoms in molecule CH3CO2H are:-
(a) sp^3 and sp (b) sp^3 and sp^2 (c) sp^2 and sp (d) sp^3 and sp^3

25. In Universal indicators, a pH of 7 is shown with:-
(a) Yellow color (b) Green color (c) Blue color (d) Pink color

26. Which statement regarding Hückel's rule is FALSE?
(a) There must be (4n + 2) pi (π) electrons
(b) The molecule must be planar
(c) The molecule must be cyclic
(d) Each of the pi (π) electrons must be associated with a conjugated double bond

27. Anthracene is isomeric with:-
(a) Phenanthrene (b) Naphthalene (c) Benzene (d) Azulene

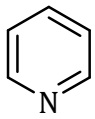
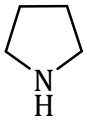
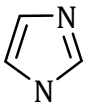
28. The molecular formula of phenanthrene is:-

(a) $C_{14}H_{10}$ (b) $C_{12}H_{10}$ (c) $C_{14}H_{14}$ (d) $C_{14}H_{8}$

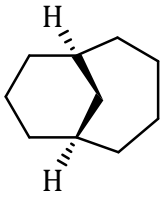
29. In electrophilic substitution of pyridine, reaction of pyridine with H2O2 in acetic acid leads to formation of:-

(a) 1,4-Dihydropyridine (b) 2-Hydroxypyridine (c) 2-Pyridone (d) Pyridine-N-oxide

30. **Which compound is most basic?**

(a)  (b)  (c)  (d) 

31. Correct Nomenclature for the following bridged bicyclic ring system is:-



(a) bicyclo[4.4.0]decane (b) bicyclo[4.3.0]decane

(c) bicyclo[4.3.1]decane (d) bicyclo[4.4.1]decane

32. Which among the following correctly defines Diastereomer?

(a) These have same magnitude but different signs of optical rotation

(b) Nonsuperimposable object mirror relationship

(c) These differ in all physical properties

(d) Separation is very difficult

33. Galactose and Glucose are:-

(a) Epimers (b) Anomers (c) Isomers (d) Ketose-Aldose isomers

34. Which among the following is a non-essential amino acid?

(a) Lysine (b) Threonine (c) Serine (d) Histidine

35. Which of the following is a 3,3-sigmatropic reaction which converts a 1,5-diene to an isomeric 1,5 diene?

(a) Cope rearrangement (b) Claisen rearrangement

(c) Photochemical [2+2] reaction (d) Diels-Alder reaction

36. What quantity of an indicator solution shall be added when quantity is not mentioned in an assay or test?

(a) 0.1 ml (b) 0.05 ml (c) 0.2 ml (d) 0.5 ml

37. In Kjeldahl method, sample containing nitrogen is digested with _____.

(a) Concentrated sodium hydroxide (b) Fuming nitric acid

(c) Concentrated sulphuric acid (d) Strong ammonia solution

38. What is the concentration of paracetamol in a 0.1 N sodium hydroxide solution, whose absorption in a 1 cm cell at its λmax, 257 nm, was found to be 0.825? The A (1%, 1 cm) in the IP monograph of paracetamol is given as 715 at 257 nm

(a) 1.1 g/100 ml (b) 0.0011 mg/100 ml
(c) 0.0011 g/100 ml (d) 0.0011 µg/100 ml

39. The unit for specific absorbance A (1%, 1cm) is:-
(a) µg/mL (b) mg/L (c) liter mole^{-1} cm^{-1} (d) dl g^{-1} cm^{-1}

40. What is the nuclear magnetic resonance frequency of 1H in a 7.05 Tesla magnetic field strength?
(a) 300.0 MHz (b) 200.0 MHz (c) 60.0 MHz (d) 100 MHz

41. What is Hydrogen Deficiency Index (HDI) value for toluene?
(a) 1 (b) 2 (c) 3 (d) 4

42. In NMR, the aromatic proton resonate in a characteristic narrow range at:-
(a) δ 6.5 – δ 8.0 (b) δ 11.0 – δ 12.0 (c) δ 2.0 – δ 4.0 (d) δ 0.7 – δ 1.3

43. The difficulties of long elution time and poor resolution of complex mixtures are observed in elution analysis. These difficulties can be overcome by modification of elution analysis, known as:-
(a) Isocratic-elution analysis (b) Gradient-elution analysis
(c) Displacement analysis (d) Frontal analysis

44. Materials whose consistency depends on the duration of shear, as well as on the rate of shear, exhibit:-
(a) Rheopexy (b) Thixotropy (c) Viscoelasticity (d) Plasticity

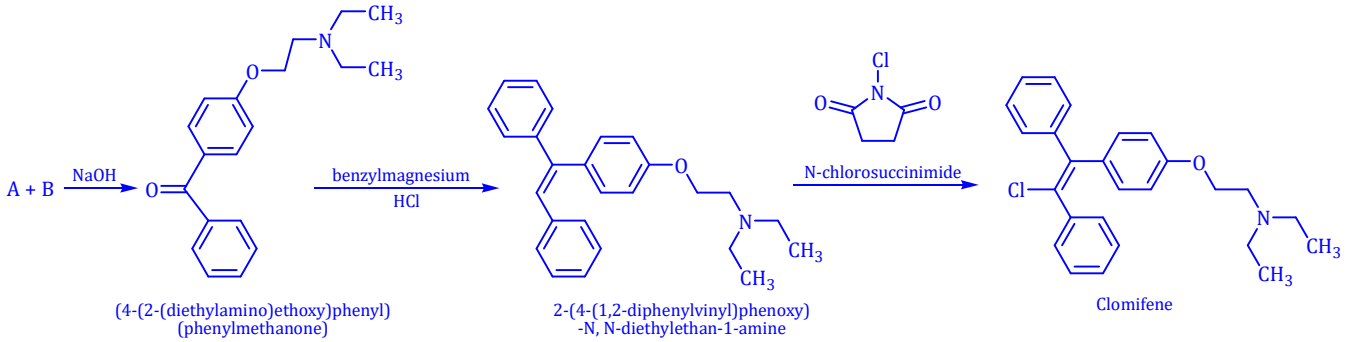
45. Which of the following solutions are more likely to have the same osmotic pressure? Solutions of:
(a) Diluted nonelectrolytes with the same molal concentration
(b) Concentrated nonelectrolytes with the same molal concentration
(c) Diluted electrolytes with the same molal concentration
(d) Concentrated electrolytes with the same molal concentration

46. Which statements are correct for the micelle formation?
(P) Micelles are dynamic structures that are continually formed and broken down in solution.
(Q) The typical micelle diameter is about 2–3 µm and so they are visible under the light micro scope.
(R) Micelle formation is a spontaneous process.
(S) When the surfactant concentration is increased above the CMC, the number of micelles increases and the free surfactant concentration decreases below CMC.
(a) P and Q (b) P and R (c) P and S (d) R and S

47. Which equation is used to predict the stability of a drug product at room temperature from experiments at accelerated temperature?
(a) Higuchi equation (b) The Arrhenius' equation
(c) Hildebrand equation (d) The Hixson-Crowell equation

48. Which statement correctly describes Hess's Law?
(a) The enthalpy of all reactants in their standard states is defined as zero
(b) Enthalpy changes can be calculated only if one or more of the reactants is/are element
(c) The enthalpy change of a reaction can be calculated only at 1 atm pressure and 25 °C
(d) The enthalpy change of a reaction is independent of the route of reaction

49. Identify the starting material A and B in the synthesis of Clomifene.



(a) Where A 4-hydroxy-benzophenone and B 2-diethylamino-ethyl chloride
(b) Where A 4-hydroxy benzaldehyde and B 4-methoxy aniline
(c) Where A 4-hydroxy-benzophenone and B 4-methoxy aniline
(d) Where A 4-hydroxy-benzophenone and B benzaldehyde

50. The role of glutathione in tissues includes all except:-
(a) Participate in decomposition of hydrogen peroxide
(b) Participate in activation of methionine
(c) Participate in detoxification reactions
(d) Biologically active in oxidized form

51. When Ke is constant and Ka is larger:-
(a) C_{max} is more and t_{max} is longer (b) C_{max} is lesser and t_{max} is longer
(c) C_{max} is lesser and t_{max} is short (d) C_{max} is more and t_{max} is short

52. When considering drug delivery to the brain which of the following is false?
(a) The cells in the blood vessels that supply the brain are tightly connected which restricts drug absorption
(b) Only relatively small lipophilic molecules readily, passively diffuse in to the brain
(c) Drugs with a low log P value show improved passive diffusion into the brain (P: oil / water partition coefficient)
(d) Polar molecules can be taken up into the brain through active transport

53. IVIVC utilizes the principles of statistical moment analysis:-
(a) Level A (b) Level B (c) Level C (d) Level D

54. The systems that follows, Weibull Mathematical Model used to describe drug release kinetics are:-
(a) Swellable polymeric devices (b) Diffusion matrix formulation
(c) Erodible matrix formulation (d) Transdermal system

55. Which method is used by pharmacists for complete blending of potent powders with large quantities of diluents?
(a) Spatulation (b) Levigation (c) Trituration (d) Geometric dilution

56. Substance used to reduce friction during tablet compression and facilitate ejection of tablets from the die cavity is called as:-
(a) Lubricant (b) Glidant (c) Anti-adherent (d) Humectant

57. What quantities of 95% v/v and 45% v/v alcohols are to be mixed to make 800 mL of 65% v/v alcohol?

(a) 480 mL of 95% and 320 mL of 45% alcohol
(b) 320 mL of 95% and 480 mL of 45% alcohol
(c) 440 mL of 95% and 360 mL of 45% alcohol
(d) 360 mL of 95% and 440 mL of 45% alcohol

58. The proportion of NaCl liquid to give 1.5% solution of drug isotonic with blood plasma is:- (The freezing point of 1% w/v solution of drug is -0.122 and NaCl is -0.576 °C)

(a) 0.79% (b) 0.585% (c) 0.9% (d) 0.5%

59. Which of the following statement is NOT TRUE about prokaryotes?

(a) Nucleus is not bounded by nuclear membrane
(b) Cell wall contains peptidoglycan
(c) 80S ribosomes are distributed in cytoplasm
(d) It is Haploid in nature

60. Match the following diseases under column I with the respective causative organisms under Column II.

Column I	**Column II**
i. Creutzfeldt-Jacob disease	p. Yersinia pestis
ii. Typhus	q. Prions
iii. Syphilis	r. Rickettsia prowazekii
iv. Plague	s. Treponema palladium

(a) i-r, ii-s, iii-p, iv-q (b) i-p, ii-q, iii-r, iv-s (c) i-q, ii-r, iii-s, iv-p (d) i-s, ii-p, iii-q, iv-r

61. As the dielectric constant values increases, the polarity of the solvents _____.

(a) Decreases (b) Increases
(c) Remains constant (d) Decreases and then remains constant

62. The angle of repose is calculated by _____.

(a) tan α = Radius/Height (b) tan α = 1+ Radius/Height
(c) tan α = 1- Radius/Height (d) tan α = Height/Radius

63. Spray drying / spray congealing method is generally used to prepare _____.

(a) Tablets (b) Microcapsules (c) Capsules (d) Ointments

64. HLB value of tragacanth is:-

(a) 4.7 (b) 8.7 (c) 13.2 (d) 14.3

65. Vials and bottles are regularly not subjected to following test:-

(a) Sterility test (b) Clarity test
(c) Leaker (chamber) test (d) Pyrogen test

66. As per USP, test limit for treated soda lime glass with container size of 200 ml is:-

(a) 0.70ml of 0.02N Acid (b) 1.0ml of 0.2N Acid
(c) 0.20ml of 0.02N Acid (d) 0.70ml of 0.2N Acid

67. In plasma, phenobarbital is present as ionized and unionized forms in equal amount because:-
(a) It is weakly acidic drug (b) It is weakly basic drug
(c) pH of plasma is 6.8 (d) pKa of the phenobarbital is 7.4

68. A material which is insoluble and inert and used in matrix tablet formulation is:-
(a) Polyethylene (b) Stearyl alcohol (c) Polyethylene glycol (d) Triglycerides

69. Which test is done for USP Type-I glass containers for injections?
(a) Water attack test
(b) Powdered glass test
(c) Powdered glass followed by water attack test
(d) Water attack followed powdered glass test

70. Isoelectric point of Type A gelatin is _____.
(a) pH 7.0 (b) pH 4.7 (c) pH 9.0 (d) pH 7.4

71. What is the effective ratio of methyl paraben and propyl paraben for anti-microbial activity?
(a) 1:1 (b) 5:1 (c) 2.5:1 (d) 10:1

72. Which of the following formula is used to determine shelf life as per first order reaction?
(a) t_{90} 0.693/k (b) t_{90} 0.104/k (c) $t_{1/2}$ 0.693/k (d) $t_{1/2}$ 0.105/k

73. Following are endogenous carriers use for targeted drug delivery except:-
(a) Lipoprotein (b) Serum Albumin (c) Erythrocyte (d) Microparticulates

74. The friability issue of the tablet can be solved by different ways except:-
(a) Increasing the upper punch pressure of tablet machine
(b) Addition of more tablet binder to granules
(c) Increasing the moisture content of granules
(d) Adjusting the lower punch pressure of tablet machine

75. What are the specific surface per unit volume Sv of spherical particles with density of 3 gm/cm^3 and volume surface diameter, dvs of 2.57μm?
(a) 7.78 x 10^3 cm^2/cm^3 (b) 2.33 x 10^3 cm^2/cm^3
(c) 1.55 x 10^3 cm^2/cm^3 (d) 1.00 x 10^3 cm^2/cm^3

76. In a free-flowing powder, the bulk density and tapped density would be close in value, therefore, the Carr index would be:-
(a) Small (b) Medium (c) Large (d) None

77. Buffer capacity is also referred to as:-
(a) Buffer index (b) Buffer value (c) Buffer efficiency (d) All of these

78. Keesom interactions has a force of:-
(a) 0.5- 1 kcal/mol (b) 1-7 kcal/mol (c) 1-3 kcal/mol (d) None of these

79. Dipole - induced dipoles are also known as:-
(a) London forces (b) Keesom forces (c) Debye forces (d) Hydrogen bonding

80. The interfacial tension of Oleic acid against water at 20°C is:-
(a) 15.6 (b) 52.3 (c) 428 (d) 8.51

81. Suspensions of starch in water exhibit:-
(a) Plastic flow (b) Psudoplastic flow (c) Dilatant flow (d) None of these

82. Very weak bases having pKa < 5:-
(a) Are ionized in the entire pH range of GIT (b) Absorbed only in stomach
(c) Are unionized at all pH values (d) None of these

83. During determination of absorption rate constant by method of residual, flip-flop phenomenon occurs when (Ka absorption rate constant and KE overall elimination rate constant).
(a) $K_E/Ka \geq 3$ (b) $Ka/K_E \geq 3$ (c) $K_E/Ka \leq 3$ (d) $Ka/K_E \leq 3$

84. Which of the following disinfectant effectively destroys vegetative bacterial cells including Gram positive and Gram negative bacteria, bacterial endospores, fungi, and viruses?
(a) 8% formaldehyde + 70% alcohol (b) 70% Alcohol
(c) 0.1% Phenol aqueous (d) 0.1% Iodine aqueous

85. Which of the following are obligatory intracellular parasites?
(P) Virus (Q) Fungus (R) Mycoba cterium (S) Rickettsia
(a) all (b) (P), (Q) and (R) (c) (R) and (S) (d) (P) and (S)

86. Select the correct statement
(a) Acids salt corresponding to an insoluble salt will be more water soluble than original salt
(b) Hydroxides and oxides of compounds other than alkali metal cations and the common ions are generally water soluble
(c) Sulphides are water soluble except for their alkali metal salts
(d) Ammonium and Quaternary ammonium salts are water insoluble

87. What is the viscosity of resulting liquid after mixing 300mL of liquid A (η=1.0 cP) with the 200mL of liquid B (η=3.4 cP)?
(a) 2.2 cP (b) 1.4 cP (c) 1.6 cP (d) 1.8 cP

88. A compound now increasingly used as standard practice for enhancing the flow of rubber latex by spraying on to the scraped bark of the rubber tree increasing the latex yields from 36% to 130% is:-
(a) Brassinosteroids (b) Abscisic acid (c) Ethephon (d) Kinetin

89. The constituent of Cochineal is:-
(a) Cantharidin (b) Hirudin (c) Tannic acid (d) Carminic acid

90. The sweet taste and odour of fennel is due to:-
(a) Anethole (b) Fenchone (c) Eugenol (d) Phellandrene

91. Catechu is used in medicine as an:-
(a) Antidiabetic (b) Anti cancer (c) Antipyretic (d) Astringent

92. Tropane alkaloids are biosynthesized from _____ amino acid.
(a) Phenylalanine (b) Tyrosine (c) Ornithine (d) Leucine

93. One mg of Lycopodium contains an average of:-
(a) 97000 spores (b) 96000 spores (c) 95000 spores (d) 94000 spores

94. Charaka, a physician belonged to which system of medicine?
(a) Ayurveda (b) Unani (c) Siddha (d) Homeopathy

95. The CCCN code indicating the botanical drugs is:-
(a) 2211 (b) 1122 (c) 1211 (d) 1311

96. Uncaria gambir belongs to the family:-
(a) Rubiaceae (b) Combretaceae (c) Punicaceae (d) Rosaceae

97. Alkanna tinctoria (Boraginaceae) roots are used in:-
(a) Dandruff (b) Tooth paste
(c) Facial cleansing wash (d) Lipstick formulations and hair dyes

98. Identify the clotting factor which is known as Stuart factor or thrombokinase.
(a) Clotting factor - IV (b) Clotting factor - VIII
(c) Clotting factor - X (d) Clotting factor - XII

99. Which part of the eye is light sensitive (photosensitive)?
(a) Iris (b) Sclera (c) Lens (d) Retina

100. Identify the specific site where maturation of sperm takes place.
(a) Spermatic cord (b) Epididymis (c) Testis (d) Vas deference

101. Identify the hormone that stimulates sperm production in testes and ovulation in females.
(a) Prolactin (b) Luteinising hormone
(c) Follicle stimulating hormone (d) Adrenocorticotropic hormone

102. Identify the correct pair from the following:-
(a) Sympathetic stimulation: Bronchoconstriction
(b) Parasympathetic stimulation: Secretion of gastric juice
(c) Sympathetic stimulation: Contraction of pupil
(d) Parasympathetic stimulation: Dilatation of pupil

103. The number of subjects required in a phase 1 clinical trial is:-
(a) 20 to 100 (b) Upto several hundred
(c) 300 to 3,000 (d) Several thousands

104. To obtain a more effective bronchodilation, the drugs that are combined along with beta-adrenoceptor agonists are:-
(a) Cholinergic antagonists (b) Cholinergic agonists
(c) Beta-adrenoceptor antagonists (d) Alpha-adrenoceptor antagonists

105. Which of the following antipsychotic drugs, at low doses, is combined with antidepressants in treatmentresistant depression?
(a) Chlorpromazine (b) Haloperidol (c) Risperidone (d) Fluphenazine

106. The management of Type-B adverse drug reaction is:-

(a) To reduce the dose
(b) To withhold the dose and avoid in future
(c) To increase the dose
(d) To reintroduce and withdraw slowly

107. Abatacept, a fusion protein, and a co-stimulation blocker used in the treatment of Rheumatoid arthritis blocks the:-

(a) Activation of T-cells
(b) Inhibition of T-cells
(c) Activation of B-cells
(d) Inhibition of B-cells

108. Hemophilia A is a disease characterized by deficiency of:-

(a) Factor VIII (b) Factor II (c) Factor VII (d) Factor V

109. The enzyme HMG-CoA reductase is involved in the pathogenesis of:-

(a) Atherosclerosis
(b) Renal failure
(c) Alzheimer disease
(d) Parkinson disease

110. Rheumatic heart disease is caused by:-

(a) Streptococcal infection
(b) Excessive lipid consumption
(c) Abnormal lipid metabolism
(d) Atherosclerosis

111. Which of the following is NOT a gene associated with breast cancer?

(a) BRCA1 (b) HER2 (c) BRCA2 (d) CHRM1

112. Which of the following is NOT true about the Ebola Virus Disease (EVD)?

(a) Spreads through human-to-human transmission via direct contact
(b) Antiviral drugs are approved by FDA to mitigate the infection
(c) Diagnostic tests include ELISA
(d) The virus is named after a river

113. Hypodermoclysis refers to which route of drug administration?

(a) Sublingual (b) Intradermal (c) Subcutaneous (d) Intravenous

114. Which of the following is a shortest acting cholinersterase inhibitors enlisted below?

(a) Neostigmine (b) Pyridostigmine (c) Edrophonium (d) Physostigmine

115. Which of the following is a suitable antidote for mercury poisoning?

(a) Atropine (b) Dimercaprol (c) Naloxone (d) Nalorphine

116. Histamine concentration is highest in:-

(a) Beta cells (b) Mast cells (c) Lymphocytes (d) Adipocytes

117. Select the â-lactamase inhibitor.

(a) Griseofulvin (b) Clavulanic acid (c) Sulfamethoxazole (d) Tetracycline

118. The mechanism of action of ciprofloxacin is:-

(a) Inhibition of protein synthesis by interacting with 30s ribosome
(b) Inhibition of protein synthesis by interacting with 50s ribosomes
(c) Inhibition of DNA synthesis by interacting with topoisomerase
(d) Inhibition of cell wall synthesis

119. Which of the following is NOT CORRECT for myasthenia gravis?

(a) Down regulation of nicotinic receptors (Nm) leads to myasthenia gravis
(b) Tubocurarine is used to treat myasthenia gravis
(c) It is an autoimmune disorder
(d) Thymectomy is treatment option for myasthenia gravis

120. Which of the following describes the effect of Sodium cromoglycate?

(a) Mast cell degranulation (b) Mast cell stabilization
(c) Leukotriene antagonism (d) Glucocorticoid receptor agonism

121. Which of the following side effect of ACE inhibitors result from inhibition of bradykinin breakdown?

(a) Analgesia (b) Hyperglycaemia (c) Productive cough (d) Dry cough

122. Identify antihistamine drug with additional serotonin receptor blocking activity and good appetite stimulant property.

(a) Cyproheptadine (b) Cimetidine (c) Ranitidine (d) Chlorpheniramine

123. Which of the following are the mechanisms of action of digitalis glycosides?

i. Inhibition of Na^+-K^+ ATPase enzyme.
ii. Reduction in the auriculo-ventricular conduction rate.
iii. Increase in the cardiac output.
iv. Acceleration of auriculo-ventric ular conduction rate.

(a) Only iii (b) i, ii and iii (c) ii, iii and iv (d) Only i

124. The following is NOT true for Furosemide:-

(a) Causes hypokalemia (b) Causes hypouricemia
(c) Causes hypomagnesemia (d) Acts by inhibiting sodium reabsorption

125. Which of the following about the Varicella-Zoster Virus (VZV) is NOT true?

(a) Varicella develops after an individual is exposed to VZV for the first time
(b) Herpes zoster develops from reactivation of the virus later in life
(c) There are no vaccines for this virus
(d) The infection results in post-herpetic neuralgia

End of paper

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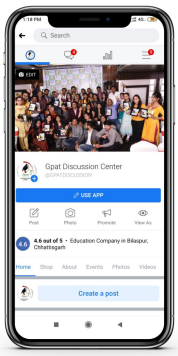

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ANSWER KEY GPAT 2018

1-b	2-c	3-a	4-a	5-b	6-c	7-c	8-d	9-d	10-c
11-c	12-b	13-b	14-a	15-c	16-b	17-a	18-a	19-c	20-c
21-c	22-d	23-d	24-b	25-b	26-d	27-a	28-a	29-d	30-c
31-c	32-c	33-a	34-c	35-a	36-a	37-c	38-c	39-d	40-a
41-d	42-a	43-b	44-b	45-a	46-b	47-b	48-d	49-a	50-d
51-d	52-c	53-b	54-c	55-d	56-a	57-b	58-b	59-c	60-c
61-b	62-d	63-b	64-c	65-c	66-c	67-d	68-a	69-b	70-c
71-d	72-b	73-d	74-d	75-b	76-a	77-d	78-b	79-c	80-a
81-c	82-c	83-a	84-a	85-d	86-a	87-b	88-c	89-d	90-a
91-d	92-c	93-d	94-a	95-c	96-a	97-d	98-c	99-d	100-b
101-c	102-b	103-a	104-a	105-c	106-b	107-a	108-a	109-a	110-a
111-d	112-b	113-c	114-c	115-b	116-b	117-b	118-c	119-b	120-b
121-d	122-a	123-b	124-b	125-c					

OTHER SUBJECTS

1. As per the Medical Termination of Pregnancy Act and rules, the safe custody of "Forms" is with :
   (a) Standing committee (b) Registered Medical Practitioner
   (c) Owner of the approved place (d) Chief Medical Officer
2. For protein detection most commonly used probe is :
   (a) Interferon (b) Antibody (c) Lectin (d) Antigen
3. Consumer who are loyal to two-three brands are considered as :
   (a) Split loyals (b) Switcher loyals (c) Semi-core loyaLs (d) Shifting loyals
4. Choose the CORRECT statement with respect to "The Pharmacy Act, 1948 :
   (a) Education regulation 1991 dose not prescribe the minimum qualification for the registration as Pharmacist
   (b) Section 12 of the act deals with the approval of course of study under chapter 2 there of.
   (c) Section 12 of the act deals with the approval of course of study and examination under chapter 2 there of.
   (d) State Govt. is authorised to make any rules with respect to course of study.
5. ELISA is based upon
   (a) Antigen Protein Interaction (b) Antibody - protein Interaction
   (c) Antigen Antibody Interaction (d) Lectin - Antibody Interaction
6. The relation between emissive power of the surface and its absorptlvity is given by
   (a) Stefan - Boltzmann Law (b) Darcy's Law
   (c) Fourier's Law (d) Kirchhoff's Law
7. In India the patent office has its head office at Kolkata and branch offices at :
   (a) Dibrugarh, Indore and Vapi (b) Kashmir, Ahmedabad and Trivandrum
   (c) Chandigarh, Hyderabad and Goa (d) Mumbai, Chennai and New Delhi
8. Penalty for the cultivation of any cannabis plant to produce, sell. purchase transport in contravention of Narcotic Drugs and Psychotropic substances Act and Rules on first conviction is
   (a) Rigorous imprisonment up to 10 years or fine up to Rs. 10 Lakhs
   (b) Rigorous imprisonment up to 10 years or fine up to Rs. 1 Lakh
   (c) Rigorous imprisonment up to 6 months
   (d) Fine up to Rs. 10 Lakh

9. In Direct, Contact or Jet condensers, barometric leg serves one of the following functions :

(a) To remove the condensate/cooling water mixture

(b) To measure the pressure difference across the tube

(c) To Heat the liquid feed to ifs boiling point

(d) To transfer the feed in to the evaporating chamber

10. Which of the following is considered as differentiated product ?

(a) Ranitidine (b) Zantac (c) Isoniazid (d) Paracetamol

11. Hardinge mill is a variant of :

(a) Fluid energy mill (b) Ball mill (c) Hammer mill (d) Rotary cutter mill

PHARMACEUTICAL CHEMISTY

12. Retention hyperbilirubenamia is caused due to

(a) Choleric jaundice (b) Non clearance of bilirubin

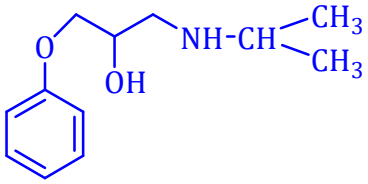
(c) Reflux of bilirubin into blood stream (d) Over production of bilirubin

13. What will be the Heat of vaporisation of 1 mole of water, when it has the entropy change (ΔS) of 35.2 cal/mole.deg (at 25°C) ?

(a) 1.408 cal/ mole (b) 10489 cal/ mole

(c) 8465 cal/ mole (d) 880 cal/mole

14. Identify the name of drug with the following structure :



(a) Esmolol (b) Betaxolol (c) Metoprolol (d) Bisaprolol

15. The following ACE inhibitor used in treating cardiovascular disorder is synthesized from the natural amino acids L-alanine and L-proline :

(a) Ramipril (b) Enalapril (c) Insmopril (d) Captopril

16. The infra-red absorption peaks of Nujol is due to vibrations involving

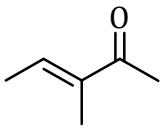
(a) S - hstr and S - hdef (b) S - hstr and O - hdef

(c) C - hstr and C - hdef (d) N - hstr and N - hdef

17. Permitted tolerance limit for a 100mL class B volumetric flask and 1000 mL class B volumetric flask according to BS 1792 specifications respectively are _____ mL

(a) 0.15 and 0.80 (b) 0.80 and 0.30 (c) 1.00 and 10.00 (d) 0.15 and 1.5

18. Predict λ_{maz} for π - π^* absorption band in the UV spectrum of following compound :



(a) 237 nm (b) 215 nm (c) 241 nm (d) 240 nm

19. One of the following is a most commonly used protecting group for amines :

(a) Para Methyl benzyl (PMB)
(b) t-Butyloxy carbonyl (t-BOC)
(c) Methoxy methylene (MOM)
(d) Tetra hydro pyranyl oxy (THP)

20. Choose the correct sequence of process during Atomization in atomic absorption spectroscopy

(a) Desolvation → Nebulization → Dissociation → Volatilization → Ionization
(b) Nebulization → Desolvation → Volatilization → Dissociation → Ionization
(c) Desolvation → Nebulization → Volatilization → Dissociation → Ionization
(d) Nebulization Volatilization → Desolvation → Dissociation → Ionization

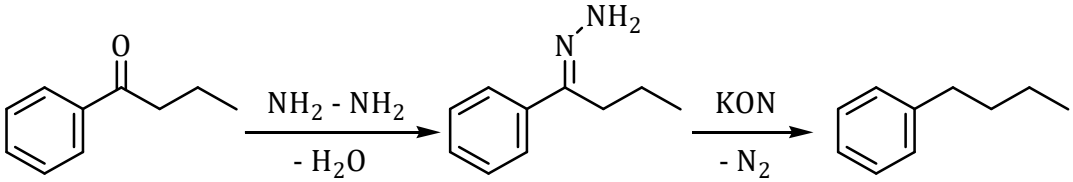
21. Which among the following carrier gases has the highest thermal conductivity ?

(a) Nitrogen
(b) Oxygen
(c) Helium
(d) Compressed Air

22. Phase solubility Analysis curve is not a good tool for :

(a) Complex formation
(b) Bioavailability determination
(c) Polymorph detection
(d) Impurity detection

23.



Identify the named reaction;

(a) Curtius Rearrangement
(b) Clemmensen reduction
(c) Wolf-Kishner reduction
(d) Wolf-Rearrangement

24. Which of the following inactive clotting factor is activated by the vitamin-K as a co-enzyme ?

(a) I, II, III, IV
(b) II, V, IX, X
(c) II, V, VI, VIII
(d) II, VII, IX, X

25. Identify the molecule which will not exhibit Dipole moment ?

(a) Carbon dioxide (b) Carbon monoxide (c) Chloroform (d) Ammonia

26. The following combination of drugs are used in treating severe travelers diarrhoea :

(a) Pyrimethamine and sulfadiazine
(b) Trimethoprim and sulfadiazine
(c) Pyrimethamine and sulfamethoxazole
(d) Trimethoprim and sulfamethoxazole

27. Reaction of an α-halo ester with an aldehyde or ketone in the presence of a base like $NaNH_2$ gives α, β-epoxy carboxylic ester. This reaction is referred as :

(a) Willgerodt rearrangement
(b) Bamford steven reaction
(c) Darzen's glycidic synthesis
(d) Bayer villiger rearrangement

28. Amylopectin, a component of starch gives ..... colour with iodine

(a) No colour (b) Green (c) Blue (d) Red-purple

29. Anti addition of bromine to trans-2-butene yields :

(a) Enantiomer and racemic mixture
(b) Only racemic mixture
(c) Only enantiomers
(d) Only meso compounds

30. Conversion of aryldiamnium chloride to arylchloride can be achieved in the presence of :

(a) Copper (Il) chloride
(b) Copper (I) chloride
(c) Sodium chloride
(d) Calcium chloride

31. Von Gierke's glycogen storage disease is due to defect of which enzyme :

(a) Phosphofructokinase
(b) Glucosyl 4 - 6 transferase
(c) Glycogen phosphorylase
(d) Glucose - 6 - phosphatase

32. The chief product obtained by the reaction of neo-pentyl bromide under E_1 reaction conditions ;

(a) neo pentyl alcohol
(b) 2-methyl-2-butene
(c) 2-methyl-l , 3-butadiene
(d) 2-methyl butene

33. RNA molecules having intrinsic catalytic activity are called as .....

(a) mRNAs (b) Ribozymes (c) sn RNAs (d) rRNAs

34. This semi synthetic derivative of penicillin is synthesized by acylation of 6-APA with p-hydroxy phenyl glycine :

(a) Becampicillin (b) Amoxicillin (c) Ampicillin (d) Carbenicillin

35. Choose the correct product of the following reaction :

$HNO_3 + 2H_2SO_4 \rightleftharpoons ?$

(a) $H_3O^{\oplus} + 2HSO_4^{\ominus} + NO_2^{\oplus}$
(b) $H_2O + 2HSO_4^{\ominus} + NO_2^{\oplus}$
(c) $H_3O^{\oplus} + 2HSO_4^{\oplus} + NO_2^{\oplus}$
(d) $OH + 2HSO_4 + NO_2^{\ominus}$

36. Oxazole is prepared by the condensation of α-amino carbonyl compound with

(a) Amino acid
(b) Isocyanide
(c) Aminoether
(d) Iminoester

37. Select the correct order of ortho/para directing ability Of the functional groups from those given below :

(Strongest first, Weakest last)

(a) – NHCOR > – OH > – C_6H_5 > I
(b) – NHCOR > – NH_2 > – C_6H_5 > I
(c) – NHCOR > – NR_2 > – C_6H_5 > I
(d) – NHR > – NHCOR > – C_6H_5 > I

38. Blockade in β-oxidation results in :

(a) Von Gierk's disease (b) Scurvy

(c) Sudden infant death syndrome (d) Taruli' s disease

39. The basic ring system present in the antihypertensive and antiglaucoma drug Timolol" is:

(a) 1, 3, 5 - Thiadiazole and Morpholine (b) 1, 3 - Thiazole and Morpholine

(c) 1, 2, 5 - Thiadiazole and Morpholine (d) 1, 2, 4 - Thiadiazole and Morpholine

40. Dehydration of this dicarboxylic acid to obtain corresponding anhydride is difficult due to stereo chemical arrangement :

(a) Malic acid (b) Fumaric acid (c) Glutaric acid (d) Succinic acid

41. Which of the following pair of drugs is con sidered as selective α_1 -Blockers ?

(a) Timolol and Metoprolol (b) Prazosin and Terazosin

(c) Formoterol and Levalbuterol (d) Yohimbine and Carynanthine

42. Calculate the accurate osmotic pressure at00Cof a blood serum sample using Lewis equation having freezing point – 053° C

(a) 0.636 atm (b) 6.39 atm (c) 574.28 atm (d) 0.0441 atm

43. PM indicators are used in :

(a) Redox titrations (b) Non-Aquous titrations

(c) Acid-base titrations (d) Complexometric titrations

44. Kinetically $\frac{x}{a(a-x)}$ kt is the expression for:

(a) First order reaction (b) Second order reaction

(c) Pseudo first order reaction (d) Fractional order reaction

45. Conversion Of a carbonyl functionality directly to its hydrocarbon in basic media can be achieved by

(a) Lithium aluminium hydride reduction (b) Clemmensen reduc lion

(c) Sodium borohydride reduction (d) Wolf Kishner reduction

46. Which of the following second generation β_1 - selective blockers contains 1, 3, 5 - thiadiazole ring in its structure ?

(a) Sotalol (b) Timolol (c) Penbutolol (d) Pindolol

47. The structural features present in anti-cancer antibiotics (Doxorubicin, Daunorubicin, Idarubicin and Epirubicin) are

(a) Naphthalene nucleus connected with amino sugar via glycosidic linkage

(b) Anthracene nuclues fused to cyclohexane ring that is subsequently connected with amino sugar via glycosidic linkage

(c) Quinoline nucleus connected with amino sugar via glycosidic linkage

(d) Phenanthrene nucleus fused to cyclohexane ring that is subsequently connected with amino sugar Via glycosidic linkage

48. When 50 ml of sodium hydroxide (0.1 M) is added to 100 mL of 0.1 M acetic acid, pH of the resultant solution is .....

Ka of acetic acid $= 1.82 \times 10^{-5}$

(a) 8.58 (b) 7.42 (c) 4.74 (d) 7.06

49. Gabriel ring closure method is employed for the synthesis of :

(a) 1 4-oxazine (b) Aziridine (c) Oxirane (d) Oxaziridine

PHARMACEUTICS

50. "Shake well" label must be placed on the containers of :

(a) Opthalmic suspension (b) Occuserts

(c) Opthalmic solution (d) Opthalmic gels

51. In case of Aerosol testing. valve delivering acceptance criteria for a volume of 54 mL or less

(a) ± 75% (b) ± 5% (c) ± 10% (d) ± 15%

52. Containers may be ren dered free from pyrogens by adequate cleaning and by:

(a) Autoclaving at 121 °C for 15 minutes (b) Heating at 210 °C for 3-4 hours

(c) Autoclaving at 121 °C for 1 hour (d) Heating at 100 °C for 3-4 hours

53. GMP regulation are pertaining to minimum requirements to be met by industry when :

(a) Manufacturing, packaging and holding of human drugs and veterinary drugs

(b) Manufacture of human drugs and veterinary drugs

(c) Manufacture and packaging of human drugs and veterinary drugs

(d) Manufacture and holding of human drugs and veterinary drugs

54. Which one of the following viscometers can be used for characterizing non-Newtonian system ?

(a) Falling sphere viscometer (b) Cup and Bob viscometer

(c) Capillary viscometer (d) Hoeppler viscometer

55. For drug substances with highly variable pharmacokinetic characteristics the following Bioequivalence study design is used

(a) Parallel Design (b) Non-Replicate Design

(c) Non-Parallel Design (d) Replicate Design

56. Roll-tube technique is the modification of :

(a) Pour plate technique (b) The streak - plate technique

(c) Micromanipulator technique (d) Spread plate technique

57. Which mechanism of metabolism of drug is not affected by weight change Of patient ?

(a) Conjugative metabolism (b) Acetylation metabolism

(c) Hydrolytic metabolism (d) Oxidative metabolism

58. 21 CFR part 211 of USFDA describes :

(a) Current good clinical practice (b) Current good packaging practice

(c) Current good manufacturing practice (d) Current good laboratory practice

59. In treating immunodeficiency disease the goal is to maintain lgG levels at about :

(a) 100 mg/ dL (b) 400 mg/ dL (c) 200 mg/ dL (d) 300 mg/ dL

60. Which one of the following is the property of micro-emulsion ?

(a) They have particle size more than 1 micron

(b) They have poor stability

(c) They exhibit a viscoelastic gel phase, when internal phase is added in excess

(d) They have milky yellow colour

61. The rheological and functional properties of synovial fluid are impaired due to :

(a) Increase in the content of mucus (b) Decrease in the content of mucus

(c) Increase in the content of hyaluronic acid (d) Decrease in the content of hyaluronic acid

62. Movement of charged particle through a liquid under the influence of an applied potential difference is known as

(a) Sedimentation Potential (b) Streaming Potential

(c) Electrophoresis (d) Electroosmosis

63. As per US FDA, NDA's for new chemical entitles are classified as either :

(a) 'P' for product review or 'S' for standard review

(b) "P' for priority review or 'S' for standard review

(c) 'P' for product review or 'S' for safety review

(d) 'P' for priority review or 'S' for safety review

64. In preformulation study polymorphs can be detected by

(a) Counter - current chromatography (b) Retractometry

(c) High performance liquid chromatography (d) Differential scanning

65. The following is/are used to determine the amount of drug bound to a protein:

(a) Equilibrium dialysis (b) Solubility (c) pH titration (d) Distribution method

66. In tablet, hydroxy propyl methyl cellulose is used as :

(a) Diluent (b) Film former (c) Disintegrant (d) Binder

67. Dakin's solution is a synonym for :

(a) Ammonium Acetate solution (b) Chlorinated soda solution

(c) Chloroxylenlol solution (d) Aluminium Acetate solution

68. MEDLINE, EMBASE, EBM AND IDIs are :

(a) Drug databases (b) New compendial specification of drugs

(c) Chronicles of drug standards (d) Source for drug patents

69. Theories of emulsification are characterized by one of the following EXCEPT:

(a) Film forma lion (b) Phase inversion

(c) Monomolecular adsorp Lion (d) Solid particle adsorption

70. When two brands of a drug product gives same clinical results, it is termed as :

(a) Therapeutic equivalence (b) Bio equivalence

(c) Pharmaceutical equivalence (d) Clinical equivalence

71. Soda ash is also known as :

(a) Lime stone (b) Sodium carbonate (c) Pure silica (d) Calcium carbonate

72. Microcrystalline cellulose is also called as :

(a) Sugar tab (b) Nutab (c) Emdex (d) Avicel

73. Which of the following statement is NOT true regarding bulkiness ?

(a) The reciprocal of bulk density is bulkiness

(b) Bulkiest substance will require container larger than required for less bulky substance

(c) Smaller particles shift between larger ones and increases bulkiness

(d) Bulkiness increases with decrease in particle size

74. Amixture of emulsifier A and emulsifier B with values of 4 and 14 respectively are to be mixed in a proportion to get mixture with required HLB 12. What is the weight of individual emulsifier that is to be taken to have a total weight of 7 gm ?

(a) A = 5.8 gm and B = 1.2 gm (b) A = 1.4 gm and B = 5.6 gm

(c) A = 5.6 gm and B = 1.4 gm (d) A = 1.2 gm and B = 5.8 gm

75. Which of the following oxide is not used for achieving Amber color to glass ?

(a) Manganese (b) Iron (c) Cobalt (d) Carbon

76. In case of open model intravenous infusion, C_{ss} (steady state plasma concentration) is equal to :

(a) $\frac{[\text{ Plasma concentratin }]\,[\text{ Infusion rate}]}{\text{Clearance}}$ (b) $\frac{[\ C_{max}\ ]\,[\text{ Infusion rate}]}{\text{Clearance}}$

(c) $\frac{[t_{max}]\,[\text{Infusion rate}]}{\text{Clearance}}$ (d) $\frac{\text{Infusion rate}}{\text{Clearance}}$

77. In case of suppositories base, SFI stands for :

(a) Solidified Fatty acid Indices (b) Solid Fluid Indices

(c) Solidified Fatty acid Incline (d) Solid Fat Index

78. If mean volume — number diameter of a powdered sample is 2.41μm, density is 3 gm/cm^3, the number of particles/gm will be .

(a) 538 x 10^{10} (b) 3.68 x 10^{10} (c) 4.55 x 10^{10} (d) 4.70 x 10^{10}

79. Which polymorphic form of a drug candidate has highest melting point :

(a) Unstable (b) Metastable (c) Hydrates (d) Stable

80. For bitter drugs in paediatric formulations, excellent flavouring agent will be.

(a) Raspberry syrup (b) Orange syrup

(c) Lemon syrup (d) Black current syrup

81. The co-administration of erythromycin with cyclosporine :

(a) Increase bioavailability, due to inhibition of hepatic metabolism

(b) Increase bioavailability, due to inhibition of microflora in intestine

(c) Decrease bioavailability due to complex formation

(d) Decrease bioavailability, due to induction of hepatic metabolism

82. Essentially Hospital Formulary system provide mechanism to :

(a) Streamline prescription writing (b) Improve quality and hygenicity of food

(c) Avoid brand and therapeutic duplication (d) Improve surgical procedures

83. Volume of blood that flows per unit time per unit volume of the tissue is :

(a) Residence time (b) Elimination rate

(c) Gastric emptying rate (d) Perfusion rate

84. Leaching by immersion Of crude material in a solvent is also known as :

(a) Maceration (b) Precipitation (c) Evaporation (d) Crystallization

85. The protein toxins that have been modified to reduce the toxicity without significantly altering the immunogenicity are known as :

(a) Sera (b) Antisera (c) Toxoids (d) Vaccines

86. Which of the following is NOT a mechanism for achieving gastroretention ?

(a) Osmosis (b) Floating (c) Mucoadhesion (d) Swelling

87. The phase contrast microscopy is valuable in studying living cells which are :

(a) Stained (b) Unstained

(c) Treated with fluorescent dye (d) Treated with fluorescent antibody

PHARMACOGNOSY

88. The size Of Lycopodium sp ores is :

(a) 45 µm (b) 15 µm (c) 35 µm (d) 25 µm

89. Regholarrhenines A-F have been isolated from :

(a) Veratrums (b) Areca (c) Aconite (d) Kurchi

90. Pungency of Zingiber officinal e rhizome is due to the presence of :

(a) Citral (b) Gingerol (c) Commiphoric acid (d) Gingeral

91. The principal cultivation areas of pyrethrum flowers are in -

(a) Sri Lanka (b) Malaysia (c) India (d) Kenya

92. In Cassia angustifolia short-term drought :

(a) Increases the concentration of sennosides A + B

(b) Decreases the concentration of sennosides A + B

(c) Causes loss of leaf biomass

(d) Causes death of the plant

93. The Glycoside Scilliroside in red sqrill acts as :

(a) Insecticide (b) Rodenticide (c) Acaricide (d) Molluscide

94. Shellac is a resinous substance pr4vtred from a secretion that encrusts the bodies of a scale insect :

(a) Viverra civet (b) Karria lacca

(c) Acipenser huso (d) Alverites moschiferus

95. All members of this order are trees or shrubs; mostly evergreen with needle - like leaves ; monoecious or dioecious - sporophylls usually in cones. Resin ducts occur in all parts :

(a) Cycadales (b) Ginkgoales (c) Taxales (d) Coniferae

96. In Gambir - fluorescin test the petroleum spirit layer shows a strong :

(a) Green fluorescence (b) Blue fluorescence

(c) Yellow fluorescence (d) Red fluorescence

97. Antiviral action of Neem in due to :

(a) Kaemferol (b) Nelanin (c) Nimbin (d) Azadirachitin

PHARMACOLOGY

98. Characteristic micrncapic features observed in Alzheimer's disease is:

(a) Epidural haemoregic patches

(b) Depigmentation of substantia nigra

(c) Demyelination of neurons in spinal cord

(d) Presence of neutritic plaques containing Ab-amyloid

99. Cardiac output is:

(a) Volume of blood ejected by the auride per minute

(b) Volume of the blood ejected by the left ventricle per beat

(c) Volume of the blood ejected by the left ventricle per minute

(d) Volume of blood ejected by the auricles per beat

100. What are sutures?

(a) Cartilaginous joints (b) Non fibrous joints

(c) Synovial joints (d) Fibrous joints of the skull

101. Following are the facts regarding clinical applications of muscarinic receptor blocking drugs. Identify the false statement:

(a) Used in the treatment of parkinson's disease is often an excercise in polypharmacy, since no single agent is fully effective.

(b) Marked reflex vagal discharge may stimulate sinoatrial oratrioventricular node to improve cardiac output.

(c) Mydriasis produced greatly facilitates opthalmoscopic examination of the retina and measurement of refractive error in uncooperative patient.

(d) Scopolamine is one among the old remedies used to treat sea-sickness

102. Which of the following cells are called scavenger cells?

(a) Neutrophils (b) Natural killer cells (c) Marcrophages (d) Mast cells

103. Which is NOT true about calcitriol?

(a) It is active form of Vit D_3

(b) It enhances reabsorption of calcium and phosphate from bone

(c) It prevents tubular reabsorption of calcium and phosphate

(d) Enhances absorption of calcium and phosphate from intestine

104. Production of an abnormal IgG immunoglohulin in Grave's disease causes:

(a) Multinodular goitre (b) Hypothyroidism

(c) Thyrotoxicosis (d) Rheumatoid arthritis

105. Metabolic acidosis does NOT occur during :

(a) Starvation (b) Chronic renal failure

(c) Wound healing (d) Uncontrolled diabetes mellitus

106. Glucocorticoids have following effects - EXCEPT:

(a) Stimulation of immune responses (b) Resistance to stress

(c) Lipolysis (d) Protein breakdown and glucose formation

107. Which one of the following is NOT' the role of Nitric oxide?

(a) Reliving vascular smooth muscle

(b) Mediating microbicidal action of macrophages

(c) Serving as neurotransmitter in CNS

(d) Inducing platelet aggregation

108. Identify the drug which is not useful in the treatment of tuberculosis:

(a) Pyrazinamide (b) Gentamicin (c) Streptomycin (d) Ciprofloxacin

109. What is anaplasia?

(a) Morphological and functional alterations/changes, that are different from normal cells

(b) Morphological and functional resemblance to normal cells

(c) Increase in size of cell

(d) Lack of growth of cells

110. Match the following liver abnormalities with consequences:

(a) Steatosis (M) Raised hiliruhin level
(b) Cholestasis (N) Slight rise in serum transaminase level
(c) Hepatitis (O) Accumulation of fat droplets within liver cells
(d) Fibrosis (P) lilevated liver function test (LFT's)

(a) (a) - (N), (b) – (P), (c)- (M), (d)- (O) (b) (a) - (O), (b) – (M), (c)- (P), (d)- (N)
(c) (a) - (N), (b) – (O), (c)- (P), (d)- (M) (d) (a) - (P), (b) – (O), (c)- (N), (d)- (M)

111. Numerous isomers of human liver P450 enzyme have been identified, it is not worthy that _____alone is responsible for the metabolism of over 55% of the prescription drugs metabolized by liver.

(a) CYP3A4 (b) CYPIA2 (c) CYP1A11 (d) CYP2B6

112. Which of the following directly inhibits Factor Xa?

(a) Dabigatran (b) Warfarin (c) Bivalirudin (d) Rivaroxahan

113. Which of the following anticonvulsants have both inhibition of excitatory glutamatergic synapse and facilitation of GABA mediated Cl channel opening action?

(a) Valproate (b) Ethosuximide (c) Topiramate (d) Phenytoin

114. Which of the following is NOT a cardioselective β blocker?

(a) Bisoprolol (b) Nebivolol (c) Acebutolol (d) Pindolol

115. The term 'aneurysm' refers to:

(a) Permanent blockage of blood vessels
(b) Permanent abnormal dilatation of blood vessel
(c) Abnormal connections in blood vessels
(d) Abnormal growth of neurones near blood vessels

116. The antiemetic activity of glycopyrronium is related to potent inhibition of ..... receptor both peripherally and centrally.

(a) $5HT_3$ (b) D_2 (c) M_1 (d) H_1

117. Identify the false statement about benzodiazepines from the following:

(a) Benzodiazepines cause reduction of anxiety
(b) Benzodiazepines cause convulsions
(c) Benzodiazepines produce muscle relaxation and loss of motor co-ordination
(d) Benzodiazepines are useful in insomnia

118. Which of the following is 5-alpha reductase inhibitor?

(a) Gliclazide (b) Sildenafil (c) Finasteride (d) Polvthiazide

119. Several different chemicals released by microbes and inflamed tissues attract phagocytes, this phenomenon is called as .....

(a) Phagocytosis (b) Integrins (c) Chemotaxis (d) Emigration

120. Hematocrit 65% to 70% indicates:
(a) Hemophilia (b) Polycythemia (c) Hypoxia (d) Anaemia

121. The adverse reaction associated with â-2 agonists administered by inhalation or nebulisation in the management of asthma does not include .....
(a) Peripheral vasodilation (b) Hypertension
(c) Tachvcardia (d) Fine tremor

122. Select the ulcer protective drug from the following:
(a) Oxyphenonium (b) Metronidazole (c) Misoprostol (d) Sucralfate

123. Disturbances of oestrogen/progesterone balance could cause a relative deficiency of ..... leading to disturbances in production of dopamine and serotonin. This contributes for emotional disturbances and depression.
(a) Enzyme decarboxylase (b) Tvrosine (c) Pyridoxine phosphate (d) Co-factor A

124. Testing of chemicals by OECD guideline No. 420 refers to which of the following:
(a) Ate oral toxicity by acute toxic class method
(b) Acute oral toxicity by up and Down procedure
(c) Repeated dose 28-day toxicity study in rodents
(d) Acute oral toxicity by fixed dose procedure

125. Which of the following is true?
Excessive use of diuretics can lead to:
(a) Hypervolemic shock (b) Neurogenic shock
(c) Hypovolemic shock (d) Cardiogenic shock

End of paper

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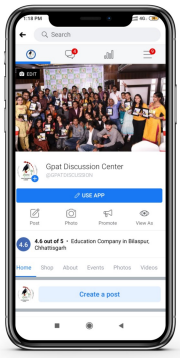

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ANSWER KEY GPAT 2019

1-c	2-b	3-a	4-c	5-c	6-b	7-d	8-b	9-a	10-b
11-b	12-d	13-b	14-d	15-b	16-c	17- b	18-a	19-b	20-b
21-c	22-b	23-c	24-d	25-a	26-d	27-c	28-d	29-d	30-b
31-d	32-b	33-b	34-b	35-a	36-d	37-d	38-c	39-c	40-b
41-b	42-a	43-d	44-b	45-d	46-b	47-b	48-c	49-b	50-a
51-d	52-b	53-a	54-b	55-d	56-b	57-d	58-c	59-c	60-c
61-d	62-c	63-b	64-d	65-a	66-b	67-b	68-a	69-b	70-a
71-b	72-d	73-c	74-b	75-c	76-d	77-d	78-c	79-d	80-a
81-a	82-c	83-d	84-a	85-c	86-a	87-b	88-d	89-d	90-b
91-d	92-a	93-b	94-b	95-d	96-a	97-c	98-d	99-c	100-d
101-b	102-c	103-c	104-c	105-c	106-a	107-d	108-b	109-a	110-b
111-a	112-d	113-a	114-d	115-b	116-c	117-b	118-c	119-c	120-b
121-b	122-d	123-c	124-d	125-c					

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Total time : 2:30 Hours

ANTIMICROBIAL, ANTICANCER, MISCELLANEOUS DRUGS, DIGESTER UPTO 20 AUGUST

INSTRUCTIONS FOR CANDIDATES

1. This question paper contains 12 pages. Please check all pages and report discrepancy if any.
2. Write your roll number, your name at specified locations.
3. Use only HB pencil for darken the circle in the answer Sheet.
4. Darken only one answer CIRCLE for each question as shown.
5. If you want to change the answer, ERASE completely the already darken CIRCLE with eraser and then make a fresh mark.
6. There are total 125 question carrying 500 marks.
7. Marking Scheme:
   a) For each **correct** answer, you will be awarded **4(four)** marks.
   b) For each wrong answer, you will be deducted **-1 (Negative one)** marks.
   c) **Multiple** answers to a question will be treated as a **wrong** Answer.
   d) For each **un-attempted** question, you will be awarded **0(Zero)** marks.
8. Rough work can be done on the question paper itself.
9. You are requested to switch off the mobile phones.
10. You will not be allowed to have in possession of any blank paper, log tables, charts, Calculator in the examination hall.

Note : It is compulsory to fill **Roll No.** and **Test Booklet Code** on answer sheet, otherwise your answer sheet will be rejected.

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ANTIMICROBIAL, ANTICANCER, MISCELLANEOUS DRUGS

1. Lactose can't be used as diluents in case of which of the following drug

(a) Ciprofloxacine (b) Sulfonamide
(c) Quinolones (d) Tetracyclines

2. Non aniline sulfonamide is

(a) Sulfadoxine
(b) Sulfadiazine
(c) Sulfamethoxazole
(d) Mafenide acetate

3. Which sulfonamide is used for treatment of rheumatoid arthritis

(a) Sulfadoxin
(b) Sulfamethopyrazine
(c) Sulfadiazine
(d) Sulfasalazine

4. All flouroquinolones have fluorine at 6thposition and piperazine at 7th position except-

(a) Ciprofloxacine (b) Pefloxacine
(c) Ofloxacine (d) Sparfloxacine

5. Because Trimethoprim enters many tissue has a larger Vd than sulfamethoxazole, therefore for obtaining optional synergistic, which will be the correct dose ratio-

(a) Sulfamethoxazole 5: Trimethoprim 1
(b) Trimethoprim 5: Sulfamethoxazole 1
(c) Sulfamethoxazole 5: Trimethoprim 1/5
(d) Trimethoprim 5: Sulfamethoxazole 1/5

6. Which of the following statements are correct

[P] Floroquinolones antibacterial action is due to digesion of DNA by exonuclease, whose production signalled by damaged DNA.

[Q] Negative supercoiling occurs in 'A' subunit of DNA gyrase.

[R] Triple sulfa is the combination of sulfadiazine, sulfomerazine and sulfadimidine.

[S] In quinolones and sulfonamide, the excretion is mainly through glomerular filtration.

(a) P and S (b) P, R, S
(c) P and Q (d) All

7. Which one of the following drugs specifically inhibits calcineurin in the activated T-Lymphocytes

(a) Daclizumab (b) Prednisone
(c) Sirolimus (d) Tacrolimus

8. Match the following-

[P] PenicillinG	[1] Benzylpenicillin
[Q] Penicillin V	[2] Phenoxy methyl penicillin
[R] Penicillin F/I	[3] Pent-2 enyl penicillin
[S] Penicillin K	[4] n- Heptyl penicillin
[T] Penicillin X	[5] p-hydroxy benzyl penicillin

(a) P[1] Q[2] R[3] S[4] T[5]
(b) P[2] Q[1] R[4] S[5] T[3]
(c) P[1] Q[2] R[5] S[3] T[4]
(d) P(1) Q[2] R[4] S[5] T[3]

9. Which of the following drug/drug combination is correct regarding it Banned state in India

[P] Fixed dose combination of penicillin and Macrolide antibiotics is banned in India

[Q] Neomycin containing antidiarrhoeal formulation

[R] Oral use for streptomycin

[S] Chloramphenicol with any other drug for internal use

[T] Tetracycline with vitamin C Choose correct option

(a) P, Q, R, S (b) Q, R, S, T
(c) P, Q, S, T (d) ALL

10. An aminoglycoside antibiotics preferred as drug of choice of tularaemia and plague on hydrolysis with methanolic hydrochloric acid Lgiven

(a) Streptidine + streptose +N-methyl glucosamine

(b) Streptidine+ methylstrepto biosaminido dimethylacetate

(c) Streptamine+ streptose dimethyl acetal+N-methyl glucosamine

(d) Streptamine+ streptose+ N-methyl glucosamine

11. Which of the following statements about tetracyclines is false?

(a) They are teratogenic

(b) They cause photosensitivity

(c) Enhanced absorption if taken with food

(d) They can inhibit matrix metalloproteinases

12. All of the following antibacterial agents act by inhibiting cell wall synthesis EXCEPT

(a) Carbapenems (b) Monobactams

(c) Cephalosporins (d) Nitrofurantoin

13. Which of the following set of statement regarding Tyrothricin is correct

(a) Mixture of gramicidin and Tyrocidin

(b) Responsible for uncoupling of oxidative phosphorylation

(c) Belongs to glycopeptide antibiotics

(d) Blocks protein synthesis by binding with 23s fraction of 50s ribosome.

(a) a & c (b) a & b

(c) b & c (d) a & d

14. Find the cephalosporin pair not available in India

(a) Cefactor and Cefoxitin

(b) Cephaloxin and Cefoxitin

(c) Cephalothin and Cefoxitin

(d) Cephalothin and Cephaloridine

15. The tetracycline derivative - Tigecycline are derivatives of ..... and can only be administered via which route

(a) Minocycline, Oral

(b) Minocycline, Topical solution

(c) Minocycline, Rectally

(d) Minocycline, Intravenous

16. Match the following-

1. Streptomycin	a. Equally active in acidic and alkaline medium
2. Isoniazide	b. More active in acidic medium
3. Pyrazinamide	c. Less active in acidic medium

(a) 1(a) 2(b) 3(c)

(b) 1(c) 2(a) 3(b)

(c) 1(b) 2(a) 3(c)

(d) 1(a) 2(c) 3(b)

17. What is incorrect about isoniazid (INH)

(a) Aluminum hydroxide increases its absorption

(b) PAS inhibits INH metabolism

(c) INH inhibits phenytoin diazepam and warfarin metabolism

(d) Peripheral neuritic is the most important dose dependent toxic effect of INH

18. Rifampin acts by

(a) Inhibiting RNA dependent DNA polymerase

(b) Inhibiting DNA dependent RNA polymerase

(c) Inhibiting mycolic acid synthesis

(d) Inhibiting arabinosyltransferase

19. The adverse effect of Rifampin includes following except-

(a) Flu- syndrome

(b) Cutaneous syndrome

(c) Respiratory syndrome

(d) Stevens Johnsons syndrome

20. The enzyme required fobioactivation of Isoniazid is

(a) Catalyase peroxidase

(b) Endo peroxidase

(c) Peroxidase

(d) Catalyase

21. Which of the following antileprotic drug is a dye and also have antiinflammatory property

(a) Clofazimine
(b) Ethionamide
(c) Diaminodiphenyl sulphone
(d) Clarythromycin

22. Following antibiotics can be used as antileprotic except-

(a) Ofloxacin. (b) Ciprofoxacin.
(c) Minoycline (d) Clarithromycin.

23. Following are the adverse effects of Dapsone except

(a) Mild haemolyticaneamia
(b) Gastric intolerance
(c) Reddish black discoloration of skin
(d) Lepra reaction

24. Which one is used as dispensing agent in a suspension of Amphotericin B for its i.v administration

(a) Darvans
(b) Diethyl carbamazine citrate
(c) Deoxycholate
(d) Daxads

25. Most important toxicity of Amphotericin B is

(a) Bone marrow suppression
(b) Hepatotoxicity
(c) Neurotoxicity
(d) Nephrotoxicty

26. Which of the following drug gives supra additive action with Amphotericin B

(a) Nystatin (b) Itraconazole
(c) Fluconazote (d) Flucytosine

27. Match the following –

Mechanism of Action	**Drug**
I. Microtubule disorientation	(a) Flucytosine
II. Squalene epoxidase inhibition	(b) Terbinafine
III. Thymidylate synthesis inhibition	(c) Amphotericin B
IV. Micropore fomation with ergosterol	(d) Griseofulvin

Chose the correct option –

(a) 1 (d) , 2 (a), 3 (c) , 4 (b)
(b) 1 (b) , 2 (d), 3 (a) , 4 (c)
(c) 1 (d), 2 (b), 3 (a) , 4 (c)
(d) 1 (d) , 2 (b), 3 (c) , 4 (a)

28. Adverse effect of Ketoconazole include following except

(a) Gynaecomastia (b) Loss of hair
(c) Oligozoospermia (d) Renal failure

29. Antifungal drugs which is not effective against Aspergillosis is-

(a) Voriconazole (b) Fluconazole
(c) Intraconazole (d) All of the above

30. Terbinafine acts by

(a) Competitive inhibition of lanosterol 14-α demethylase
(b) Non-competitive inhibition lanosterol 14-α demethylase
(c) Competitive inhibition of squalene epoxidase
(d) Non-competitive inhibition of squalene epoxidase

31. Which is not topical antifungal agent

(a) Itraconazole (b) Butenafine
(c) Tolnaftate (d) Undecylenic acid

32. "Malabsorption Syndrom" due to damaging effect on intestinal villi is caused by oral administration of –

(a) Kanamycin (b) Cephalosporin
(c) Azithromycin (d) Neomycin

33. Anti enzyme involved in conversion of acyclovir to acyclovir monophos -phate is

(a) Herpes virus specific thymidine kinase
(b) Herpes virus specific guanosine kinase
(c) Herpes virus specific uracil kinase
(d) Host cell specific cellular kinase

34. Acyclovir is the active against following except
(a) H. simplex type – I
(b) H. simplex type – II
(c) Varicella zoster
(d) Cytomegalo virus

35. Select the odd one
(a) Foscarnet (b) Acyclovir
(c) Idoxuridin (d) Valaciclovir

36. The drug which decrease HIV viral when uses to treat associated CMV/H. Simplex/ Varicella zoster infection in AIDS patient but is not used primarily for HIV
(a) Zidovudine (b) Famciclovir
(c) Ganciclovir (d) Foscarnet

37. Active metabolite of zidovudine selectively inhibit
(a) DNA dependent RNA polymerase
(b) RNA dependent DNA polymerase
(c) Hepatitis B virus DNA polymerase
(d) None of the above

38. Tamiflu which is mediated for prophylaxis and treatment of influenza A, B and Bird flu is the brand name of
(a) Zanamivir (b) Amantadine
(c) Oseltamivir (d) None

39. Who got the Nobel Prize for work in Malaria
(a) Ronald Ross (b) Robert Hooke
(c) Leuwenhoek (d) A. Fleming

40. Active metabolite of Artisunate is
(a) Cycloartesunate
(b) Dihydroartemisin
(c) Trihydroartemisin
(d) Tetrahydroartemisin

41. NVBDCP is
(a) National Venue Bureau Of Bacterial Drug and Disinfectant Commission Policy
(b) National Venom Bacterial Drug Control Programme
(c) National Vector Borne Disease Control Programme
(d) National Vector Borne Drug Commission Programme

42. Which antimalarial drug has largest volume of distribution (Vd)
(a) Quinine (b) Chloroquine
(c) Mefloquine (d) Primaquine

43. Choloroquine should not be administered with following except –
(a) Mefloquine (b) Proguanil
(c) Amidarone (d) Quinidine

44. Read the statement given below
Assertion (A) :- Mefloquine can be used in 1st trimester in a pregnant female suffering from Malaria
Reason (R):- It is safe during pregnancy
(a) Both (A) & (R) are true but (R) is not the correct reason for (A)
(b) (A) is true but (R) is not the correct reason for (A)
(c) Both (A) & (R) are true & (R) is the correct reason for (A)
(d) Both (A) & (R) are false

45. What is true of Quinine
(a) It is dextrorotatory alkaloid obtained from cinchona bark
(b) It is more effective and less toxic than chloroquine
(c) It has no effect on pre-erythocytic stage and on hypnozoites ofrel apsing malaria but kills vivax gametes
(d) All of the above

46. Drug of choice for Cerebral malaria is
(a) Chlorouidine (b) Mefloquine
(c) Quinidine (d) Quinine

47. Given are the statements about Quiniodochlor-
[P] It can be used orally for intestinal amoebiasis
[Q] It can be used intravaginally for Trichomonas vaginitis
[R] It is used in Leishmaniasis

[S] It's prolong use causes Subacute Myeloptic Neuropathy(SMON)

(a) P, Q and R are true while S is false
(b) P, Q and S are true while R is false
(c) Q, R and S are true while P is false
(d) All are true

48. Sodium stibogluconate is the drug of choice for following except

(a) Kala-azar
(b) Giardiasis
(c) Leishmaniasis
(d) Dum-dum fever

49. Given are the statements about Kala-azar

[P] It is caused by L. donovani
[Q] Metronidazole is the drug of choice for it
[R] Amphotericin B can also be used in Kala-azar

Choose the correct combination

(a) P, Q and R all are true
(b) P and Q are true while R is false
(c) P and R are true while Q is false
(d) Q and R are true while P is false

50. Select the incorrect statement about Mebendazole

(a) It produces nearly 100% cure rate in round worm and hook worm
(b) It is less active on strongyloides
(c) Single dose cures round worm and hook worm infections
(d) It has broad-spectrum anthelmintic activity

51. Albendazole-

[P] Is embryotoxic in animals
[Q] Has adjuvant value in treating lymphatic Filariasis
[R] Safe in patients with hepatic or renal diseases

Choose the correct combination of statement

(a) P & Q (c) Q & R
(c) P & R (d) All

52. Spastic paralysis of the worms is caused by –

(a) Piperazin (b) Praziquental
(b) Pentamidin (d) Pyrentel pamoate

53. Choose the incorrect statement about Piperazine-

(a) It is safe and well tolerated
(b) It is contraindicated in renal insufficiency and in epileptics
(c) It is contraindicated in pregnancy
(d) Its toxic doses may be lethal due to respiratory failure

54. Read the statement given below

Assertion (A) – Praziquantel is preferred our niclosamide for *T.* sodium infection

Reason (R) – Praziquantel does not lead to digestion of the worm & kills encysted larvae so that chances of cysticercosis are minimized

Choose the correct option

(a) A is true but R is false
(b) Both A & R are false
(c) Both A & R are true & R is the corrected reason for A
(d) Both A & R are true but R is not the correct reason for A

55. The drug of choice for tropical eosinophilia is

(a) Metronidazole (b) DEC
(c) Emetine (d) Albendazole

56. The mechanism of action of Ivermectin is

(a) Interferences with carbohydrate metabolism due to inhibition of fumaratereductase
(b) Activation of nicotinic cholinergic receptor in worms resulting in persistent depolarization
(c) Inhibition of glucose uptake
(d) Activation of a special type of glutamate gated Cl^- channel

57. Which of the following is aziridine derivative

(a) Thiothepa (b) Carmustine
(c) Lomustine (d) Procarbazine

58. Ara-c is the marine anticancer drug , is the name of which drug and it comes under which class of anticancer drugs

(a) Doxorubicin, Antibiotics
(b) Antimycin D, Antibiotics
(c) Cytarabine , Pyrimidine antagonist
(d) Carboplatin , Miscellaneous drugs

59. The compound which inactivates the vasicotoxic metabolite of ifosamide andcyclophosphamide

(a) Sodium 2 mercapto methane sulfonate
(b) Sodium 2 mercapto ethane sulfonate
(c) Sodium 2 mercapto propane sulfonate
(d) Sodium 2 mercapto ethyl sulfonate

60. The drug which is primarily used immunosuppressant in organ transplantation is

(a) Cytarabine (b) Fludarabine
(c) 5FU (d) Azathioprine

61. Peripheral neuropathy and neurotoxicity are the adverse effect of

(a) Oncovin and Vinblastine
(b) Docetaxel and Paclitaxel
(c) Topotecam and Irinotecam
(d) Etoposide and Tenoposide

62. Mitoxanthrone is an analogue of

(a) Adriamycin (b) Daunorubicin
(c) Plicamycin (d) Bleomycin

63. Cardiomyopathy is the adverse effect of

(a) Doxorubucin (b) Daunorubicin
(c) Mitoxanthrone (d) All

64. The drug that inhibits tryosine protein kinase in chronic myeloid leukaemia and the ones that are activated by platelet derived growth factor (PDGF) receptor , stem cell receptor and C-kit receptor found in GIST. The drug is

(a) Ifosamide (b) Cisplatin
(c) Carboplatin (d) Imatinib

65. Match the following Cytotoxic drugs Specific adverse effect

Adverse Effect	Drug
1. Alopecia and cystitis	(a) Ifosfamide
2. Neuropathy	(b) Cyclophosphamide
3. Cardiomyopathy	(c) Vincristine
4. Hemorrhagic cystitis	(d) Doxorubicin

(a) 1 (b), 2(c), 3(d), 4(a)
(b) 1 (a), 2(c), 3(d), 4(b)
(c) 1 (b), 2(c), 3(a), 4(d)
(d) 1 (b), 2(c), 3(a), 4(d)

66. Busulphan is the drug of choice for

(a) Multiple myeloma
(b) Chronic myeloid leukemia
(c) Acute leukemia
(d) Chronic lymphatic leukemia

67. Select the incorrect statement about Methotrexate

(a) It inhibit tetrahydrofolate reductase
(b) The inhibitory action of methotrexate is pseudo irreversible
(c) It kills cells in M phase
(d) Both (a) and (c) are correct answer

68. Which of the following is/are true about the methotrexate toxicity

[P] Major toxicity is on bone marrow
[Q] Low dose repeatedly cause pancytopenia
[R] N_5 formyl Tetrahydrofolic acid causes its toxicity

(a) P and Q are true, R is false
(b) P and R are true, Q is false
(c) Q and R are true, P is false
(d) P, Q and R all are true.

69. The anti-biotics which is highly effective in tumours as well as rhabdomyosarcoma

(a) Mitomycin (b) Doxorubicin
(c) Actinomycin (d) Bleomycin

70. Anticancer having tetrahydronapthra -cene at structural component.

(a) Daunorubicin (b) Doxorubicin
(c) Both A and B (d) None

71. The 1st peptide used as anticancer drug is

(a) Bleomycin (b) Dactinomycin
(c) Mitomycin C (d) Methotrexate

72. Match the following Drug with their mechanism of action

1. Procarbazine	(a) Inhibition of nucleic acid synthesis
2. Cisplatin	(b) Inhibition of ribonucleotide diphosphate reductase
3. Hydroxyurea	(c) Conversion of L-Asparagine to L-Aspartic acid
4. L- Asparaginase	(d) Inhibit Cross linking of DNA

(a) 1 (a), 2(d), 3(b), 4(c)
(b) 1 (a), 2(d), 3(c), 4(b)
(c) 1 (d), 2(a), 3(b), 4(c)
(d) 1 (a), 2(c), 3(b), 4(d)

73. Clinical uses of immunosuppressive drugs

[P] Organ transplantation
[Q] Hemolytic disease of the newborn
[R] Autoimmune disorders
[S] In treatment of Asthama
choose correct combination

(a) P, Q (b) P, Q, R
(c) Q, R, S (d) All are correct

74. The initial doses of which drug in related to cytokines release syndrome with the like symptoms

(a) Cyclosporine
(b) Mycophenolic acid (MMF)
(c) Anti-thymocyte globulin (ATG)
(d) Muromonab

75. A Patient suffering from chronic gout is undergoing treatment with uricosuric drug probencid. If he suffers from lower Urinary tract infection(UTI) then reatment with which drug may cause toxicity?

(a) Methenamine (b) Nalidixic acid
(c) Nitrofurantoin (d) Phenazopyridine

76. Drug that is used in Wilson's Disease

(a) Penicillamine (b) Deferiprone
(c) Dimercaprol (d) Desferrioxamine

77. The first vaccine for human use produced using recombinant DNA technology was the

(a) Polio vaccine (b) MMR vaccine
(c) AIDS vaccine (c) Hepatitis B vaccine

78. A living microbe with reduced virulence that is used for vaccination is considered

(a) A toxoid (b) Virulent
(c) Attenuated (d) Denatured

79. Which is the example of Live attenua-ted bacteria vaccines

(a) BCG vaccine (b) TAB vaccine
(c) Salk (d) Sabin

80. Gene therapy' refers to the process of

(a) Identifying disease causing genes and activating them for therapeutic benefits
(b) Increasing the expression levels of the set of genes involved in a given disease inaffected cells through selective modulating agents
(c) Transfer of new genetic material to the cells of an individual for therapeutic benefit
(d) Removal of thproteincorresponding to the disease causing genes from the cells of the affected individual

DIGESTERS UPTO 20 AUGUST

81. Which is not an aromatic amino acid?

(a) Threonine (b) Phenylalanine
(c) Tyrosine (d) Tryptophan

82. Which amino acid is neutral in nature?

(a) Arginine (b) Lysine
(c) Aspargine (d) Glycine

83. Identify the correct statement?

(I) Angiotensin- I is an octapeptide
(II) Encephaline contains 5 amino acids
(III) Oxytocin & Vasopressin contain 9 amino acids.
(IV) Glucagon contains 29 amino acids
(a) I & II correct only
(b) II & III correct
(c) I & IV correct
(d) II, III & IV correct

84. Identify the correct match?

(a) Isocitrate to oxalo acetate > Isocitrate dehydrogenase > NADH as coenzyme > 2 ATP
(b) Keto glutarate to succinyl coenzyme A > α Keto glutarate dehydrogenase > NADH as coenzyme > 3ATP
(c) Succinyl coA to succinate > Succinyl thiokinase > FADH as coenzyme > 2 ATP
(d) Succinate to Fumarate > Succinate dehydrogenase > GTPas coenzyme > 1 ATP

85. Deficiency of phosphofructokinase in muscle & RBC leads to

(a) Mc-ardle syndrome (b) Taruis disease
(c) Her's disease (d) Pome's disease

86. Identify the correct statement?

(I) D-Ribulose act as intermediate in HMP Shunt
(II) D-Xylose act as intermediate in Uronic acid pathway
(III) D-Glucose is carried by the blood & used by tissues.
(IV) D- Mannose is the constituent of prosthetic polysaccharide
(a) I & II correct only (b) II & III correct
(c) I & IV correct (d) All are correct

87. Which statement is false for reducing sugar?

(a) These are carbohydrates with free aldehyde or free keto group
(b) They form oxime
(c) They exhibit muta-rotation
(d) They are having hemi acetal or hemi ketal structure

88. Which nonprotein amino acid act as precursor for melanin pigment?

(a) Homocysteine
(b) 3, 4- dihydroxy phenyl alanine
(c) β- alanine
(d) β- amino butyric acid

89. Which is not a globular protein?

(a) Elastin (b) Albumin
(c) Globulin (d) Histones

90. Ramachandran' s plot is associated with

(a) Primary structure of protein
(b) Secondary structure of protein
(c) Tertiary structure of protein
(d) Qurternary structure of protein

91. Which amino acid is an important constituent of bile acid?

(a) Cysteine (b) Glycine
(c) Tryptophan (d) Aspartic acid

92. Which is an example of heteropolysaccharide?

(a) Keratan sulphate (b) Inulin
(c) Glycogen (d) Dextrin

93. Consider the following statements about β- oxidation of fatty acid & identify the wrong one?

(a) It occurs in muscle & liver
(b) Acetyl co- A is the end product
(c) Malonyl co- A is an inhibitor of β-oxidation
(d) NADPH is the coenzyme that is necessary for β- oxidation .

94. Identify the wrong match. Defective enzyme Associated disease

(a) Sphingomyelinase Niemen- Pick disease
(b) Ceramidase Faber's disease
(c) β-Galactosidase Gaucher's disease
(d) Hexosaminidase Tay- Sache disease

95. Identify the wrong statement?

(a) HMG- coA reductase is the rate limiting enzyme for cholesterol synthesis
(b) Acetyl coA carboxylase is the rate limiting enzyme for fatty acid synthesis
(c) 7α Hydroxylase is the rate limiting enzyme for bile acid synthesis
(d) HMC coA carboxylase is the rate limiting enzyme for ketone body synthesis

96. For detection of ketone bodies, which test is used?

(a) Gerhard's test
(b) Rothra test
(c) Salkowaski's test
(d) Libermann Burchard test

97. Identify the wrong match about the glycosidic linkage of carbohydrates?

(a) Lactose = β (1, 4)
(b) Inulin = β (1, 2)
(c) Chodrotin sulphate = α (1, 3)
(d) Heparin sulphate = α (1, 4)

98. Which is a ketogenic amino acid

(a) Phenyl alanine (b) Tyrosine
(c) Lysine (d) Tryptophan

99. Number of carbon atoms present in myristic acid

(a) 18 (b) 14 (c) 16 (d) 12

100. Identify the wrong match.

Pathway	Rate limiting enzyme
(a) Glycolysis	Phospho fructokinase
(b) Glycogenolysis	Phosphorylase
(c) Glycogenesis	Glycogen synthetase
(d) Gluconeogenesis	Fructose 6 phosphatase

101. Seliwanoff's reagent is

(a) Neutral copper acetate in acetic acid
(b) Resorcinol & conc. HCl
(c) α- naphthol & conc. H_2SO_4
(d) Phenyl hydrazine, Sodium acetate & Acetic acid

102. Alkaptonuria is due to metabolic defect of

(a) Tyrosinase
(b) Glycine transaminase
(c) Tyrosine oxidase
(d) Homogentistate oxidase

103. Metabolic defect in branched chain α-Keto acid dehydrogenase enzyme gives rise to

(a) Hartnup disease
(b) Maple syrup urine disease
(c) Crystathionuria
(d) Phenyl ketonuria

104. Sanger reagent is

(a) 2, 2- dihydroxy indane 1, 3-dione
(b) Conc. HNO_3 & Resorcinol
(c) H_2SO_4 & Mercuric sulphate
(d) 1- Fluro 2,4-dinitro benzene

105. For isolation of cocaine, credit goes to

(a) Derosne (b) Neumann
(c) Pelletier (d) Posselt & Reimann

106. Consider the following statements about Lycopodium spore method & identifythe correct statements?

(I) Evaluation of powdered drugs
(II) Size of lycopodium spore is 25 μm
(III) 1 gm of powder contains 94000 spores
(IV) $\%\text{purity of drugs} = \frac{N \times W \times 94,000}{S \times M \times P} \times 100$

(a) I & II correct only
(b) I, II & III correct
(c) I & IV correct
(d) II, III & IV correct

107. Identify the wrong match.

(a) Nutmeg = Aril
(b) Cardamom = Arrilode
(c) Arista = Castor
(d) Caruncle = Croton

108.Which hormone of plant is responsible for promotion of senescence of leaf?

(a) GA3 (b) Abscisic acid
(c) Ethylene (d) IAA

109.Identify the wrong match

(a) Senna- Paracytic stomata
(b) Vasaka- Diacytic stomata
(c) Clove- Anomocytic stomata
(d) Coca- Anisocytic stomata

110.Identify the wrong match

(a) Benzoin- Styraceae
(b) Ipomea- Convolvulaceae
(c) Turpentine oil- Pinaceae
(d) Cinnamom- Zingiberaceae

111.Identify the wrong match

(a) Tropane alkaloids- Vitali Morin test
(b) Quinoline alkaloid- Thalequine test
(c) Opium alkaloids- Meconic acid test
(d) Ergot alkaloid- Murexide test

112. Blood red test is the typical evaluation test of

(a) Opium (b) Datura
(c) Hyoscyamus (d) Cinchona

113. For the identification of triterpinoid saponin, which test is used?

(a) Foam test (b) Haemolytic test
(c) Libermann test (d) All the above

114. Identify the correct sequence for the manufacturer of empty capsule shell?

(a) Dipping > Spinning > Drying > Stripping > Trimming > Joining >Polishing
(b) Dipping > Spinning > Stripping > Drying > Trimming > Joining >Polishing
(c) Dipping > Spinning > Drying > Stripping > Joining > Trimming >Polishing
(d) Spinning > Dipping > Drying > Stripping > Trimming > Joining > Polishing

115. Parts of tablet compression machine which guides the movement of punches is known as

(a) Turret (b) Camtrack
(c) Tooling (d) Die cavity

116. Taxol belongs to BCS class

(a) I (b) II (c) III (d) IV

117. Which USP dissolution test apparatus is used for evaluation of non disintegrating oral formulation?

(a) VII (b) V
(c) IV (d) II

118. Zeparox is the brand name of

(a) Dextrose (b) Starch
(c) Spray dried lactose (d) Cross povidone

119. Amberlite is the brand name of

(a) Mannitol (b) Colloidai silica
(c) Ion exchange resin (d) Cellulose

120. For filling of oleaginous solution, which type of glass containers are used?

(a) Type-I (b) Type-II
(c) Type-III (d) Type-I V

121. In the diagnosis of Myasthenia Gravis drug of choice is

(a) Edrohonium (b) Atropine
(c) Organophosphate (d) Nitrates

122. In Narcolepsy the drug of choice is

(a) Modafinil (b) Dantrolene
(c) Atropine (d) Lithium

123. Goldbeater's Test is for

(a) Resin (b) Tannin
(c) Glycoside (d) Flavanoids

124. Weight Variation limit as per UPS for the tablet weight more than 324 mg

(a) 7.5 mg (b) 7.5%
(c) 5% (d) 5 mg

125. According to Biopharmaceutical classification system class-IV drugs are

(a) High Permeability, High Solubility
(b) High Permeability, Low Solubility
(c) Low Permeability, High Solubility
(d) Low Permeability, Low Solubility

End of test paper

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Section : **Other Subjects**

Q.1 The relation between emissive power of the surface and its absorptivity is given by :

Options
1. Kirchhoff's Law
2. Stefan - Boltzmann Law
3. Darcy's Law
4. Fourier's Law

Que from Test SeriesGrand Major test 11

Question Type : **MCQ**
Question ID : **41652911911**
Option 1 ID : **41652946488**
Option 2 ID : **41652946487**
Option 3 ID : **41652946489**
Option 4 ID : **41652946486**
Status : **Answered**
Chosen Option : **2**

Q.2 As per the Medical Termination of Pregnancy Act and rules, the safe custody of "Forms" is with :

Options
1. Standing committee
2. Owner of the approved place
3. Chief Medical Officer
4. Registered Medical Practitioner

Question Type : **MCQ**
Question ID : **41652911908**
Option 1 ID : **41652946477**
Option 2 ID : **41652946476**
Option 3 ID : **41652946475**
Option 4 ID : **41652946474**
Status : **Answered**
Chosen Option : **3**

Q.3 In Direct, Contact or Jet condensers, barometric leg serves one of the following functions :

Options
1. To remove the condensate/cooling water mixture
2. To transfer the feed in to the evaporating chamber
3. To Heat the liquid feed to it's boiling point

4. To measure the pressure difference across the tube

Question Type : **MCQ**
Question ID : **41652911913**
Option 1 ID : **41652946496**
Option 2 ID : **41652946495**
Option 3 ID : **41652946497**
Option 4 ID : **41652946494**
Status : **Not Answered**
Chosen Option : **--**

Q.4 **Which of the following is considered as differentiated product ?**

Options
1. Isoniazid
2. Paracetamol
3. Zantac
4. Ranitidine

Ques. from GPATINDIA test series Major test 10

Question Type : **MCQ**
Question ID : **41652911914**
Option 1 ID : **41652946500**
Option 2 ID : **41652946499**
Option 3 ID : **41652946501**
Option 4 ID : **41652946498**
Status : **Answered**
Chosen Option : **3**

Q.5 **ELISA is based upon :**

Options
1. Antigen Protein Interaction
2. Lectin - Antibody Interaction
3. Antibody protein Interaction
4. Antigen Antibody Interaction

Ques. from GPATINDIA test series Minor test 15

Question Type : **MCQ**
Question ID : **41652911909**
Option 1 ID : **41652946479**
Option 2 ID : **41652946480**
Option 3 ID : **41652946481**
Option 4 ID : **41652946478**
Status : **Answered**
Chosen Option : **4**

Q.6 **Penalty for the cultivation of any cannabis plant to produce, sell, purchase transport in contravention of Narcotic Drugs and Psychotropic substances Act and Rules on First conviction is:**

Options
1. Rigorous imprisonment up to 10 years or fine up to Rs. 10 Lakhs
2. Rigorous imprisonment up to 10 years or fine up to Rs. 1 Lakh

3. Fine up to Rs. 10 Lakh

4. Rigorous imprisonment up to 6 months

Question Type : **MCQ**
Question ID : **41652911906**
Option 1 ID : **41652946469**
Option 2 ID : **41652946466**
Option 3 ID : **41652946468**
Option 4 ID : **41652946467**
Status : **Answered**
Chosen Option : **2**

Q.7 **For protein detection most commonly used probe is :**

Options

1. Antibody
2. Antigen
3. Interferon
4. Lectin

Ques. from GPATINDIA test series -Subject wise test- two options different from our question

Question Type : **MCQ**
Question ID : **41652911910**
Option 1 ID : **41652946482**
Option 2 ID : **41652946484**
Option 3 ID : **41652946485**
Option 4 ID : **41652946483**
Status : **Answered**
Chosen Option : **2**

Q.8 **Choose the CORRECT statement with respect to 'The Pharmacy Act, 1948' :**

Options

1. Section 12 of the act deals with the approval of course of study under chapter 2 thereof.
2. Section 12 of the act deals with the approval of course of study and examination under chapter 2 thereof.
3. Education regulation 1991 dose not prescribe the minimum qualification for the registration as Pharmacist
4. State Govt. is authorised to make any rules with respect to course of study.

Question Type : **MCQ**
Question ID : **41652911907**
Option 1 ID : **41652946470**
Option 2 ID : **41652946471**
Option 3 ID : **41652946473**
Option 4 ID : **41652946472**
Status : **Answered**
Chosen Option : **2**

Q.9 **Consumer who are loyal to two-three brands are considered as :**

Options

1. Semi-core loyals

2. Split loyals
3. Shifting loyals
4. Switcher loyals

Question Type : **MCQ**
Question ID : **41652911915**
Option 1 ID : **41652946505**
Option 2 ID : **41652946504**
Option 3 ID : **41652946503**
Option 4 ID : **41652946502**
Status : **Not Answered**
Chosen Option : **--**

Q.10 Hardinge mill is a variant of :

Options
1. Hammer mill
2. Ball mill
3. Fluid energy mill
4. Rotary cutter mill

Ques. from GPATINDIA test series- Major test 6

Question Type : **MCQ**
Question ID : **41652911912**
Option 1 ID : **41652946492**
Option 2 ID : **41652946491**
Option 3 ID : **41652946490**
Option 4 ID : **41652946493**
Status : **Answered**
Chosen Option : **3**

Q.11 In India the patent office has its head office at Kolkata and branch offices at :

Options
1. Kashmir, Ahmedabad and Trivandrum
2. Mumbai, Chennai and New Delhi
3. Chandigarh, Hyderabad and Goa
4. Dibrugarh, Indore and Vapi

Question Type : **MCQ**
Question ID : **41652911905**
Option 1 ID : **41652946463**
Option 2 ID : **41652946462**
Option 3 ID : **41652946464**
Option 4 ID : **41652946465**
Status : **Answered**
Chosen Option : **3**

Section : **Pharmaceutical Chemistry**

Q.1 Which of the following second generation β_1 - selective blockers contains 1, 3, 5, - thiadiazole ring in its structure ?

Options
1. Penbutolol

2. Pindolol
3. Timolol
4. Sotalol

Ques. from GPATINDIA test series- Major test 12

Question Type : **MCQ**
Question ID : **41652911920**
Option 1 ID : **41652946525**
Option 2 ID : **41652946522**
Option 3 ID : **41652946524**
Option 4 ID : **41652946523**
Status : **Answered**
Chosen Option : **2**

Q.2 Gabriel ring closure method is employed for the synthesis of :

Options
1. Oxaziridine
2. 1, 4-oxazine
3. Oxirane
4. Aziridine

Ques. from GPATINDIA test series- Major test 3

Question Type : **MCQ**
Question ID : **41652911949**
Option 1 ID : **41652946640**
Option 2 ID : **41652946641**
Option 3 ID : **41652946639**
Option 4 ID : **41652946638**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Von Gierke's glycogen storage disease is due to defect of which enzyme :

Options
1. Glucosyl 4 - 6 transferase
2. Glucose - 6 - phosphatase
3. Phosphofructokinase
4. Glycogen phosphorylase

Ques. from GPATINDIA test series- Minor test 6

Question Type : **MCQ**
Question ID : **41652911932**
Option 1 ID : **41652946570**
Option 2 ID : **41652946571**
Option 3 ID : **41652946572**
Option 4 ID : **41652946573**
Status : **Answered**
Chosen Option : **2**

Q.4 Amylopectin, a component of starch gives _____ colour with iodine

Options
1. Red-purple

2. No colour
3. Blue
4. Green

Question Type : **MCQ**
Question ID : **41652911927**
Option 1 ID : **41652946551**
Option 2 ID : **41652946553**
Option 3 ID : **41652946550**
Option 4 ID : **41652946552**
Status : **Answered**
Chosen Option : **3**

Q.5 Dehydration of this dicarboxylic acid to obtain corresponding anhydride is difficult due to stereochemical arrangement :

Options
1. Succinic acid
2. Malic acid
3. Fumaric acid
4. Glutaric acid

Question Type : **MCQ**
Question ID : **41652911944**
Option 1 ID : **41652946618**
Option 2 ID : **41652946619**
Option 3 ID : **41652946620**
Option 4 ID : **41652946621**
Status : **Not Answered**
Chosen Option : **--**

Q.6 Phase solubility Analysis curve is not a good tool for :

Options
1. Complex formation
2. Polymorph detection
3. Bioavailability determination
4. Impurity detection

Question Type : **MCQ**
Question ID : **41652911940**
Option 1 ID : **41652946604**
Option 2 ID : **41652946603**
Option 3 ID : **41652946605**
Option 4 ID : **41652946602**
Status : **Answered**
Chosen Option : **1**

Q.7 Identify the molecule which will not exhibit Dipole moment ?

Options
1. Carbon monoxide

2. Chloroform
3. Carbon dioxide
4. Ammonia

Question Type : **MCQ**
Question ID : **41652911937**
Option 1 ID : **41652946590**
Option 2 ID : **41652946592**
Option 3 ID : **41652946591**
Option 4 ID : **41652946593**
Status : **Answered**
Chosen Option : **2**

Q.8 This semisynthetic derivative of penicillin is synthesized by acylation of 6-APA with *p*-hydroxy phenyl glycine :

Options
1. Carbenicillin
2. Ampicillin
3. Amoxicillin
4. Becampicillin

Question Type : **MCQ**
Question ID : **41652911916**
Option 1 ID : **41652946506**
Option 2 ID : **41652946507**
Option 3 ID : **41652946509**
Option 4 ID : **41652946508**
Status : **Answered**
Chosen Option : **3**

Q.9 The chief product obtained by the reaction of neo-pentyl bromide under E_1 reaction conditions :

Options
1. 2-methyl-1,3-butadiene
2. 2-methyl butene
3. neo pentyl alcohol
4. 2-methyl-2-butene

Ques. from GPATINDIA test series- Similar concept based question asked in our test series

Question Type : **MCQ**
Question ID : **41652911952**
Option 1 ID : **41652946653**
Option 2 ID : **41652946652**
Option 3 ID : **41652946650**
Option 4 ID : **41652946651**
Status : **Answered**
Chosen Option : **4**

Q.10 Which of the following inactive clotting factor is activated by the vitamin-K as a co-enzyme ?

Options
1. I, II, III, IV
2. II, VII, IX, X

3. II, V, VI, VIII
4. II, V, IX, X

Question Type : **MCQ**
Question ID : **41652911934**
Option 1 ID : **41652946579**
Option 2 ID : **41652946578**
Option 3 ID : **41652946580**
Option 4 ID : **41652946581**
Status : **Answered**
Chosen Option : **2**

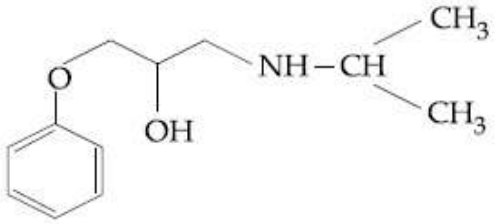
Q.11 Calculate the accurate osmotic pressure at 0°C of a blood serum sample using Lewis equation having freezing point −0.53°C :

Options
1. 0.0441 atm
2. 574.28 atm
3. 6.39 atm
4. 0.636 atm

Freezing Point question also asked in test series

Question Type : **MCQ**
Question ID : **41652911938**
Option 1 ID : **41652946597**
Option 2 ID : **41652946596**
Option 3 ID : **41652946595**
Option 4 ID : **41652946594**
Status : **Not Answered**
Chosen Option : **--**

Q.12 Identify the name of drug with the following structure :



Options
1. Betaxolol
2. Esmolol
3. Metoprolol
4. Bisaprolol

Question Type : **MCQ**
Question ID : **41652911917**
Option 1 ID : **41652946510**
Option 2 ID : **41652946511**
Option 3 ID : **41652946513**
Option 4 ID : **41652946512**
Status : **Answered**
Chosen Option : **1**

Q.13 The structural features present in anti-cancer antibiotics (Doxorubicin, Daunorubicin, Idarubicin and Epirubicin) are ....

Options 1.
Naphthalene nucleus connected with amino sugar via glycosidic linkage

2.
Phenanthrene nucleus fused to cyclohexane ring that is subsequently connected with amino sugar via glycosidic linkage

3.
Anthracene nuclues fused to cyclohexane ring that is subsequently connected with amino sugar via glycosidic linkage

4.
Quinoline nucleus connected with amino sugar via glycosidic linkage

Question Type : **MCQ**
Question ID : **41652911922**
Option 1 ID : **41652946532**
Option 2 ID : **41652946531**
Option 3 ID : **41652946530**
Option 4 ID : **41652946533**
Status : **Answered**
Chosen Option : **4**

Q.14 Anti addition of bromine to trans-2-butene yields :

Options 1. Only enantiomers

2. Only meso compounds

3. Enantiomer and racemic mixture

4. Only racemic mixture

Question Type : **MCQ**
Question ID : **41652911950**
Option 1 ID : **41652946642**
Option 2 ID : **41652946645**
Option 3 ID : **41652946644**
Option 4 ID : **41652946643**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Retention hyperbilirubenamia is caused due to _____.

Options 1. Non clearance of bilirubin

2. Reflux of bilirubin into blood stream

3. Over production of bilirubin

4. Choleric jaundice

Question Type : **MCQ**
Question ID : **41652911935**
Option 1 ID : **41652946584**
Option 2 ID : **41652946583**

Option 3 ID : **41652946582**
Option 4 ID : **41652946585**
Status : **Answered**
Chosen Option : **4**

Q.16 Oxazole is prepared by the condensation of α-amino carbonyl compound with :

Options
1. Aminoether
2. Iminoester
3. Amino acid
4. Isocyanide

Ques. from GPATINDIA test series- Subject wise Major test 3

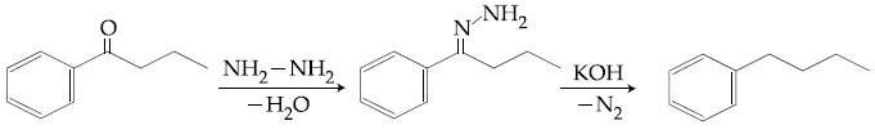
Question Type : **MCQ**
Question ID : **41652911953**
Option 1 ID : **41652946655**
Option 2 ID : **41652946654**
Option 3 ID : **41652946656**
Option 4 ID : **41652946657**
Status : **Answered**
Chosen Option : **1**

Q.17 Conversion of aryldiazonium chloride to arylchloride can be achieved in the presence of :

Options
1. Copper (I) chloride
2. Calcium chloride
3. Sodium chloride
4. Copper (II) chloride

Question Type : **MCQ**
Question ID : **41652911943**
Option 1 ID : **41652946614**
Option 2 ID : **41652946617**
Option 3 ID : **41652946616**
Option 4 ID : **41652946615**
Status : **Answered**
Chosen Option : **1**

Q.18



Identify the named reaction;

Options
1. Curtius Rearrangement
2. Wolf-Rearrangement
3. Clemmensen reduction
4. Wolf-Kishner reduction

Ques. from GPATINDIA test series- Subject wise Major test 7

Question Type : **MCQ**
Question ID : **41652911945**
Option 1 ID : **41652946624**
Option 2 ID : **41652946625**
Option 3 ID : **41652946622**
Option 4 ID : **41652946623**
Status : **Answered**
Chosen Option : **4**

Q.19 RNA molecules having intrinsic catalytic activity are called as _____.

Options
1. Ribozymes
2. sn RNAs
3. rRNAs
4. mRNAs

Question Type : **MCQ**
Question ID : **41652911933**
Option 1 ID : **41652946575**
Option 2 ID : **41652946576**
Option 3 ID : **41652946577**
Option 4 ID : **41652946574**
Status : **Answered**
Chosen Option : **1**

Q.20 Which of the following pair of drugs is considered as selective α_1-Blockers ?

Options
1. Formoterol and Levalbuterol
2. Yohimbine and Carynanthine
3. Prazosin and Terazosin
4. Timolol and Metoprolol

Ques. from GPATINDIA test series-Grand Major test 5

Question Type : **MCQ**
Question ID : **41652911918**
Option 1 ID : **41652946514**
Option 2 ID : **41652946515**
Option 3 ID : **41652946516**
Option 4 ID : **41652946517**
Status : **Answered**
Chosen Option : **3**

Q.21 The infra-red absorption peaks of Nujol is due to vibrations involving :

Options
1. $O-H_{str}$ and $O-H_{def}$
2. $C-H_{str}$ and $C-H_{def}$
3. $S-H_{str}$ and $S-H_{def}$
4. $N-H_{str}$ and $N-H_{def}$

Question Type : **MCQ**

Question ID : **41652911929**
Option 1 ID : **41652946560**
Option 2 ID : **41652946558**
Option 3 ID : **41652946561**
Option 4 ID : **41652946559**
Status : **Not Answered**
Chosen Option : **--**

Q.22 The following ACE inhibitor used in treating cardiovascular disorder is synthesized from the natural amino acids L-alanine and L-proline :

Options

1. Enalapril
2. Captopril
3. Lisinopril
4. Ramipril

Question Type : **MCQ**
Question ID : **41652911923**
Option 1 ID : **41652946535**
Option 2 ID : **41652946536**
Option 3 ID : **41652946534**
Option 4 ID : **41652946537**
Status : **Answered**
Chosen Option : **2**

Q.23 Choose the correct product of the following reaction :

$HNO_3 + 2H_2SO_4 \rightleftharpoons ?$

Options

1. $H_3O^{\oplus} + 2HSO_4^{\oplus} + NO_2^{\oplus}$
2. $OH^{\ominus} + 2HSO_4^{\ominus} + NO_2^{\ominus}$
3. $H_3O^{\oplus} + 2HSO_4^{\ominus} + NO_2^{\oplus}$
4. $H_2O + 2HSO_4^{\ominus} + NO_2^{\oplus}$

Question Type : **MCQ**
Question ID : **41652911948**
Option 1 ID : **41652946637**
Option 2 ID : **41652946636**
Option 3 ID : **41652946635**
Option 4 ID : **41652946634**
Status : **Answered**
Chosen Option : **3**

Q.24 One of the following is a most commonly used protecting group for amines :

Options

1. t-Butyloxy carbonyl (t-BOC)
2. Para Methyl benzyl (PMB)

Ques. from GPATINDIA test series-
50% similarity in option & Question language

3. Methoxy methylene (MOM)

4. Tetra hydro pyranyl oxy (THP)

Question Type : **MCQ**
Question ID : **41652911946**
Option 1 ID : **41652946626**
Option 2 ID : **41652946629**
Option 3 ID : **41652946628**
Option 4 ID : **41652946627**
Status : **Answered**
Chosen Option : **1**

Q.25 Conversion of a carbonyl functionality directly to its hydrocarbon in basic media can be achieved by :

Options

1. Clemmensen reduction

2. Lithium aluminium hydride reduction

3. Wolf Kishner reduction

4. Sodium borohydride reduction

Question Type : **MCQ**
Question ID : **41652911947**
Option 1 ID : **41652946632**
Option 2 ID : **41652946631**
Option 3 ID : **41652946633**
Option 4 ID : **41652946630**
Status : **Answered**
Chosen Option : **3**

Q.26 **pM indicators are used in :**

Options

1. Complexometric titrations

2. Non-Aquous titrations

3. Acid-base titrations

4. Redox titrations

Ques. from GPATINDIA test series- Minor test

Question Type : **MCQ**
Question ID : **41652911926**
Option 1 ID : **41652946549**
Option 2 ID : **41652946548**
Option 3 ID : **41652946547**
Option 4 ID : **41652946546**
Status : **Answered**
Chosen Option : **1**

Q.27 What will be the Heat of vaporisation of 1 mole of water, when it has the entropy change (ΔS) of 35.2 cal/mole.deg (at 25°C) ?

Options

1. 8465 cal/mole

2. 880 cal/mole
3. 1.408 cal/mole
4. 10489 cal/mole

Question Type : **MCQ**
Question ID : **41652911939**
Option 1 ID : **41652946600**
Option 2 ID : **41652946601**
Option 3 ID : **41652946598**
Option 4 ID : **41652946599**
Status : **Not Answered**
Chosen Option : **--**

Q.28 Kinetically $\frac{x}{a(a-x)} = kt$ is the expression for:

Options
1. fractional order reaction
2. first order reaction
3. second order reaction
4. pseudo first order reaction

Question Type : **MCQ**
Question ID : **41652911941**
Option 1 ID : **41652946609**
Option 2 ID : **41652946606**
Option 3 ID : **41652946608**
Option 4 ID : **41652946607**
Status : **Answered**
Chosen Option : **2**

Q.29 Reaction of an α-halo ester with an aldehyde or ketone in the presence of a base like $NaNH_2$ gives α, β-epoxy carboxylic ester. This reaction is referred as:

Options
1. Bamford steven reaction
2. Darzen's glycidic synthesis
3. Bayer villiger rearrangement
4. Willgerodt rearrangement

Question Type : **MCQ**
Question ID : **41652911951**
Option 1 ID : **41652946646**
Option 2 ID : **41652946648**
Option 3 ID : **41652946647**
Option 4 ID : **41652946649**
Status : **Answered**
Chosen Option : **3**

Q.30

Select the correct order of ortho/para directing ability of the functional groups from those given below :

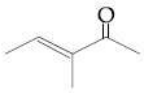
(Strongest first, Weakest last)

Options

1. $-NHCOR > -OH > -C_6H_5 > I$
2. $-NHR > -NHCOR > -C_6H_5 > I$
3. $-NHCOR > -NH_2 > -C_6H_5 > I$
4. $-NHCOR > -NR_2 > -C_6H_5 > I$

Question Type : **MCQ**
Question ID : **41652911942**
Option 1 ID : **41652946610**
Option 2 ID : **41652946613**
Option 3 ID : **41652946611**
Option 4 ID : **41652946612**
Status : **Answered**
Chosen Option : **4**

Q.31 Predict λ_{max} for a $\pi \rightarrow \pi^*$ absorption band in the UV spectrum of following compound :



Options

1. 237 nm
2. 241 nm
3. 240 nm
4. 215 nm

Ques. from GPATINDIA test series- Major test

Question Type : **MCQ**
Question ID : **41652911930**
Option 1 ID : **41652946563**
Option 2 ID : **41652946565**
Option 3 ID : **41652946564**
Option 4 ID : **41652946562**
Status : **Not Answered**
Chosen Option : **--**

Q.32 The basic ring system present in the antihypertensive and antiglaucoma drug "Timolol" is :

Options

1. 1, 2, 5 - Thiadiazole and Morpholine
2. 1, 3, 5 - Thiadiazole and Morpholine
3. 1, 2, 4 - Thiadiazole and Morpholine
4. 1, 3 - Thiazole and Morpholine

Question Type : **MCQ**
Question ID : **41652911919**
Option 1 ID : **41652946519**
Option 2 ID : **41652946520**
Option 3 ID : **41652946518**

Option 4 ID : **41652946521**
Status : **Answered**
Chosen Option : **3**

Q.33 When 50 ml of sodium hydroxide (0.1 M) is added to 100 mL of 0.1 M acetic acid, pH of the resultant solution is _____.
Ka of acetic acid $= 1.82 \times 10^{-5}$

Options
1. 4.74
2. 7.42
3. 8.58
4. 7.06

Question Type : **MCQ**
Question ID : **41652911931**
Option 1 ID : **41652946569**
Option 2 ID : **41652946566**
Option 3 ID : **41652946568**
Option 4 ID : **41652946567**
Status : **Not Answered**
Chosen Option : **--**

Q.34 Blockade in β-oxidation results in :

Options
1. Von Gierk's disease
2. Taruli's disease
3. Scurvy
4. Sudden infant death syndrome

Ques. from GPATINDIA test series- Grand Major test 9

Question Type : **MCQ**
Question ID : **41652911936**
Option 1 ID : **41652946588**
Option 2 ID : **41652946589**
Option 3 ID : **41652946586**
Option 4 ID : **41652946587**
Status : **Answered**
Chosen Option : **2**

Q.35 Choose the correct sequence of process during Atomization in atomic absorption spectroscopy :

Options
1. Nebulization → Desolvation → Volatilization → Dissociation → Ionization
2. Desolvation → Nebulization → Volatilization → Dissociation → Ionization
3. Nebulization → Volatilization → Desolvation → Dissociation → Ionization
4. Desolvation → Nebulization → Dissociation → Volatilization → Ionization

Question Type : **MCQ**
Question ID : **41652911924**

Option 1 ID : **41652946540**
Option 2 ID : **41652946538**
Option 3 ID : **41652946541**
Option 4 ID : **41652946539**
Status : **Answered**
Chosen Option : **2**

Q.36 Which among the following carrier gases has the highest thermal conductivity ?

Options
1. Compressed Air
2. Helium
3. Nitrogen
4. Oxygen

Question Type : **MCQ**
Question ID : **41652911925**
Option 1 ID : **41652946543**
Option 2 ID : **41652946544**
Option 3 ID : **41652946545**
Option 4 ID : **41652946542**
Status : **Answered**
Chosen Option : **2**

Q.37 The following combination of drugs are used in treating severe travellers diarrhoea :

Options
1. Pyrimethamine and sulfadiazine
2. Trimethoprim and sulfadiazine
3. Pyrimethamine and sulfamethoxazole
4. Trimethoprim and sulfamethoxazole

Question Type : **MCQ**
Question ID : **41652911921**
Option 1 ID : **41652946526**
Option 2 ID : **41652946529**
Option 3 ID : **41652946527**
Option 4 ID : **41652946528**
Status : **Answered**
Chosen Option : **2**

Q.38 Permitted tolerance limit for a 100 mL class B volumetric flask and 1000 mL class B volumetric flask according to BS 1792 specifications respectively are _____ mL.

Options
1. 1.00 and 10.00
2. 0.80 and 0.30
3. 0.15 and 1.5
4. 0.15 and 0.80

Question Type : **MCQ**
Question ID : **41652911928**

Option 1 ID : **41652946554**
Option 2 ID : **41652946556**
Option 3 ID : **41652946555**
Option 4 ID : **41652946557**
Status : **Not Answered**
Chosen Option : **--**

Section : **Pharmaceutics**

Q.1 **In case of suppositories base, SFI stands for :**

Options
1. Solidified Fatty acid Indices
2. Solid Fat Index
3. Solid Fluid Indices
4. Solidified Fatty acid Incline

Ques. from GPATINDIA test series-Minor test 6

Question Type : **MCQ**
Question ID : **41652911958**
Option 1 ID : **41652946677**
Option 2 ID : **41652946675**
Option 3 ID : **41652946674**
Option 4 ID : **41652946676**
Status : **Answered**
Chosen Option : **1**

Q.2 **Which one of the following is the property of micro-emulsion ?**

Options
1. They have particle size more than 1 micron.
2. They have milky yellow colour
3. They exhibit a viscoelastic gel phase, when internal phase is added in excess.
4. They have poor stability.

Question Type : **MCQ**
Question ID : **41652911956**
Option 1 ID : **41652946666**
Option 2 ID : **41652946667**
Option 3 ID : **41652946668**
Option 4 ID : **41652946669**
Status : **Answered**
Chosen Option : **3**

Q.3 **Volume of blood that flows per unit time per unit volume of the tissue is :**

Options
1. Gastric emptying rate
2. Perfusion rate
3. Elimination rate
4. Residence time

Question Type : **MCQ**

Question ID : **41652911972**
Option 1 ID : **41652946730**
Option 2 ID : **41652946733**
Option 3 ID : **41652946731**
Option 4 ID : **41652946732**
Status : **Answered**
Chosen Option : **2**

Q.4 As per US FDA, NDA's for new chemical entitles are classified as either :

Options
1. 'P' for priority review or 'S' for safety review.
2. 'P' for priority review or 'S' for standard review
3. 'P' for product review or 'S' for standard review
4. 'P' for product review or 'S' for safety review

Ques. from GPATINDIA Drug inspector test series- Subject wise test paper

Question Type : **MCQ**
Question ID : **41652911976**
Option 1 ID : **41652946746**
Option 2 ID : **41652946747**
Option 3 ID : **41652946749**
Option 4 ID : **41652946748**
Status : **Not Answered**
Chosen Option : **--**

Q.5 The phase contrast microscopy is valuable in studying living cells which are :

Options
1. Treated with fluorescent antibody
2. Stained
3. Treated with fluorescent dye
4. Unstained

Question Type : **MCQ**
Question ID : **41652911990**
Option 1 ID : **41652946805**
Option 2 ID : **41652946803**
Option 3 ID : **41652946804**
Option 4 ID : **41652946802**
Status : **Not Answered**
Chosen Option : **--**

Q.6 In case of one-compartment open model intravenous infusion, C_{ss} (steady state plasma concentration) is equal to :

Options
1. $\frac{[\text{Plasma concentration}]\,[\text{Infusion rate}]}{\text{Clearance}}$
2. $\frac{\text{Infusion rate}}{\text{Clearance}}$
3. $\frac{[t_{max}]\,[\text{Infusion rate}]}{\text{Clearance}}$

4. $\frac{[C_{max}][\text{Infusion rate}]}{\text{Clearance}}$

Question Type : **MCQ**
Question ID : **41652911974**
Option 1 ID : **41652946740**
Option 2 ID : **41652946738**
Option 3 ID : **41652946739**
Option 4 ID : **41652946741**
Status : **Answered**
Chosen Option : **4**

Q.7 Which of the following oxide is not used for achieving Amber color to glass ?

Options
1. Manganese
2. Carbon
3. Cobalt
4. Iron

Question Type : **MCQ**
Question ID : **41652911968**
Option 1 ID : **41652946715**
Option 2 ID : **41652946716**
Option 3 ID : **41652946717**
Option 4 ID : **41652946714**
Status : **Answered**
Chosen Option : **4**

Q.8 21 CFR part 211 of USFDA describes :

Options
1. Current good clinical practice
2. Current good packaging practice
3. Current good manufacturing practice
4. Current good laboratory practice

Question Type : **MCQ**
Question ID : **41652911959**
Option 1 ID : **41652946679**
Option 2 ID : **41652946681**
Option 3 ID : **41652946678**
Option 4 ID : **41652946680**
Status : **Answered**
Chosen Option : **3**

Q.9 The co-administration of erythromycin with cyclosporine :

Options
1. Decrease bioavailability due to complex formation
2. Increase bioavailability, due to inhibition of microflora in intestine

3.
Decrease bioavailability, due to induction of hepatic metabolism

4.
Increase bioavailability, due to inhibition of hepatic metabolism

Question Type : **MCQ**
Question ID : **41652911973**
Option 1 ID : **41652946737**
Option 2 ID : **41652946735**
Option 3 ID : **41652946734**
Option 4 ID : **41652946736**
Status : **Not Answered**
Chosen Option : **--**

Q.10 Movement of a charged particle through a liquid under the influence of an applied potential difference is known as :

Options
1. Electroosmosis
2. Electrophoresis
3. Streaming Potential
4. Sedimentation Potential

Question Type : **MCQ**
Question ID : **41652911977**
Option 1 ID : **41652946750**
Option 2 ID : **41652946753**
Option 3 ID : **41652946752**
Option 4 ID : **41652946751**
Status : **Answered**
Chosen Option : **2**

Q.11 In tablet, hydroxy propyl methyl cellulose is used as :

Options
1. Binder
2. Diluent
3. Disintegrant
4. Film former

Question Type : **MCQ**
Question ID : **41652911957**
Option 1 ID : **41652946671**
Option 2 ID : **41652946672**
Option 3 ID : **41652946670**
Option 4 ID : **41652946673**
Status : **Answered**
Chosen Option : **4**

Q.12 In treating immunodeficiency disease the goal is to maintain IgG levels at about :

Options
1. 300 mg/dL
2. 200 mg/dL

3. 400 mg/dL

4. 100 mg/dL

Question Type : **MCQ**
Question ID : **41652911991**
Option 1 ID : **41652946808**
Option 2 ID : **41652946807**
Option 3 ID : **41652946809**
Option 4 ID : **41652946806**
Status : **Not Answered**
Chosen Option : **--**

Q.13 **MEDLINE, EMBASE, EBM AND IDIs are :**

Options
1. Drug databases
2. Chronicles of drug standards
3. New compendial specification of drugs
4. Source for drug patents

In our test series-we asked about medline

Question Type : **MCQ**
Question ID : **41652911963**
Option 1 ID : **41652946695**
Option 2 ID : **41652946696**
Option 3 ID : **41652946697**
Option 4 ID : **41652946694**
Status : **Answered**
Chosen Option : **1**

Q.14 **When two brands of a drug product gives same clinical results, it is termed as :**

Options
1. Pharmaceutical equivalence
2. Clinical equivalence
3. Bio equivalence
4. Therapeutic equivalence

Question Type : **MCQ**
Question ID : **41652911971**
Option 1 ID : **41652946729**
Option 2 ID : **41652946726**
Option 3 ID : **41652946727**
Option 4 ID : **41652946728**
Status : **Answered**
Chosen Option : **3**

Q.15 **Soda ash is also known as :**

Options
1. Calcium carbonate
2. Sodium carbonate

3. Lime stone

4. Pure silica

Question Type : **MCQ**
Question ID : **41652911964**
Option 1 ID : **41652946701**
Option 2 ID : **41652946699**
Option 3 ID : **41652946698**
Option 4 ID : **41652946700**
Status : **Answered**
Chosen Option : **2**

Q.16 Which one of the following viscometers can be used for characterizing non-Newtonian system ?

Options

1. Falling sphere viscometer

2. Cup and Bob viscometer

3. Capillary viscometer

4. Hoeppler viscometer

Question Type : **MCQ**
Question ID : **41652911979**
Option 1 ID : **41652946759**
Option 2 ID : **41652946760**
Option 3 ID : **41652946758**
Option 4 ID : **41652946761**
Status : **Answered**
Chosen Option : **2**

Q.17 Which of the following is NOT a mechanism for achieving gastroretention ?

Options

1. Floating

2. Osmosis

3. Swelling

4. Mucoadhesion

Ques. from GPATINDIA test series-Subject wise Major test

Question Type : **MCQ**
Question ID : **41652911965**
Option 1 ID : **41652946703**
Option 2 ID : **41652946705**
Option 3 ID : **41652946704**
Option 4 ID : **41652946702**
Status : **Not Answered**
Chosen Option : **--**

Q.18 If mean volume − number diameter of a powdered sample is 2.41 μm, density is 3 gm/cm^3, the number of particles/gm will be :

Options

1. 3.68×10^{10}

2. 4.70×10^{10}
3. 5.38×10^{10}
4. 4.55×10^{10}

Question Type : **MCQ**
Question ID : **41652911983**
Option 1 ID : **41652946777**
Option 2 ID : **41652946776**
Option 3 ID : **41652946775**
Option 4 ID : **41652946774**
Status : **Not Answered**
Chosen Option : **--**

Q.19 The following technique/s is/are used to determine the amount of drug bound to a protein :

Options
1. Solubility
2. Distribution method
3. Equilibrium dialysis
4. pH titration

Ques. from GPATINDIA test series- Major test 10

Question Type : **MCQ**
Question ID : **41652911981**
Option 1 ID : **41652946768**
Option 2 ID : **41652946769**
Option 3 ID : **41652946766**
Option 4 ID : **41652946767**
Status : **Answered**
Chosen Option : **3**

Q.20 Containers may be rendered free from pyrogens by adequate cleaning and by :

Options
1. Autoclaving at 121°C for 15 minutes.
2. Heating at 210°C for 3-4 hours
3. Autoclaving at 121°C for 1 hour
4. Heating at 100°C for 3-4 hours

Ques. from GPATINDIA test series- Subject Wise Major test

Question Type : **MCQ**
Question ID : **41652911966**
Option 1 ID : **41652946706**
Option 2 ID : **41652946709**
Option 3 ID : **41652946707**
Option 4 ID : **41652946708**
Status : **Answered**
Chosen Option : **2**

Q.21 Which of the following statement is NOT true regarding bulkiness ?

Options
1. Bulkiness increases with decrease in particle size
2.

Smaller particles shift between larger ones and increases bulkiness

3. Bulkiest substance will require container larger than required for less bulky substance

4. The reciprocal of bulk density is bulkiness

Question Type : **MCQ**
Question ID : **41652911982**
Option 1 ID : **41652946772**
Option 2 ID : **41652946773**
Option 3 ID : **41652946771**
Option 4 ID : **41652946770**
Status : **Answered**
Chosen Option : **2**

Q.22 Which mechanism of metabolism of drug is not affected by weight change of patient ?

Options
1. Oxidative metabolism
2. Acetylation metabolism
3. Conjugative metabolism
4. Hydrolytic metabolism

Question Type : **MCQ**
Question ID : **41652911975**
Option 1 ID : **41652946742**
Option 2 ID : **41652946745**
Option 3 ID : **41652946743**
Option 4 ID : **41652946744**
Status : **Not Answered**
Chosen Option : **--**

Q.23 Microcrystalline cellulose is also called as :

Options
1. Nutab
2. Avicel
3. Sugar tab
4. Emdex

Ques. from GPATINDIA test series- Major test 4

Question Type : **MCQ**
Question ID : **41652911954**
Option 1 ID : **41652946659**
Option 2 ID : **41652946661**
Option 3 ID : **41652946658**
Option 4 ID : **41652946660**
Status : **Answered**
Chosen Option : **2**

Q.24 GMP regulation are pertaining to minimum requirements to be met by industry when :

Options
1. Manufacture and holding of human drugs and veterinary drugs

2.
Manufacturing, packaging and holding of human drugs and veterinary drugs.

3. Manufacture of human drugs and veterinary drugs.

4.
Manufacture and packaging of human drugs and veterinary drugs.

Question Type : **MCQ**
Question ID : **41652911969**
Option 1 ID : **41652946720**
Option 2 ID : **41652946721**
Option 3 ID : **41652946718**
Option 4 ID : **41652946719**
Status : **Answered**
Chosen Option : **2**

Q.25 Which polymorphic form of a drug candidate has highest melting point :

Options
1. Unstable
2. Hydrates
3. Stable
4. Metastable

Ques. from GPATINDIA test series- Major test 11

Question Type : **MCQ**
Question ID : **41652911960**
Option 1 ID : **41652946684**
Option 2 ID : **41652946685**
Option 3 ID : **41652946682**
Option 4 ID : **41652946683**
Status : **Answered**
Chosen Option : **4**

Q.26 In case of Aerosol testing, valve delivering acceptance criteria for a volume of 54 µL or less is :

Options
1. ± 15%
2. ± 10%
3. ± 5%
4. ± 75%

Question Type : **MCQ**
Question ID : **41652911967**
Option 1 ID : **41652946710**
Option 2 ID : **41652946711**
Option 3 ID : **41652946712**
Option 4 ID : **41652946713**
Status : **Answered**
Chosen Option : **1**

Q.27 Roll-tube technique is the modification of :

Options

1. The streak - plate technique
2. Micromanipulator technique
3. Spread plate technique
4. Pour plate technique

Question Type : **MCQ**
Question ID : **41652911989**
Option 1 ID : **41652946798**
Option 2 ID : **41652946801**
Option 3 ID : **41652946800**
Option 4 ID : **41652946799**
Status : **Not Answered**
Chosen Option : **--**

Q.28 Essentially Hospital Formulary system provide mechanism to :

Options
1. Improve quality and hygenicity of food
2. Improve surgical procedures
3. Avoid brand and therapeutic duplication
4. Streamline prescription writing

Question Type : **MCQ**
Question ID : **41652911986**
Option 1 ID : **41652946789**
Option 2 ID : **41652946788**
Option 3 ID : **41652946786**
Option 4 ID : **41652946787**
Status : **Answered**
Chosen Option : **4**

Q.29 "Shake well" label must be placed on the containers of :

Options
1. Opthalmic solution
2. Opthalmic gels
3. Opthalmic suspension
4. Occuserts

Ques. from GPATINDIA test series- Minor test

Question Type : **MCQ**
Question ID : **41652911955**
Option 1 ID : **41652946662**
Option 2 ID : **41652946663**
Option 3 ID : **41652946664**
Option 4 ID : **41652946665**
Status : **Answered**
Chosen Option : **3**

Q.30 Dakin's solution is a synonym for :

Options
1. Chlorinated soda solution
2. Aluminium Acetate solution
3. Ammonium Acetate solution
4. Chloroxylenlol solution

Ques. from GPATINDIA test series- Grand Major test 8

Question Type : **MCQ**
Question ID : **41652911987**
Option 1 ID : **41652946792**
Option 2 ID : **41652946791**
Option 3 ID : **41652946793**
Option 4 ID : **41652946790**
Status : **Answered**
Chosen Option : **1**

Q.31 **In preformulation study polymorphs can be detected by :**

Options
1. Differential scanning calorimetry
2. Retractometry
3. Counter - current chromatography
4. High performance liquid chromatography

Question Type : **MCQ**
Question ID : **41652911962**
Option 1 ID : **41652946692**
Option 2 ID : **41652946690**
Option 3 ID : **41652946693**
Option 4 ID : **41652946691**
Status : **Answered**
Chosen Option : **1**

Q.32 **A mixture of emulsifier A and emulsifier B with H.L.B. values of 4 and 14 respectively are to be mixed in a proportion to get a mixture with required HLB 12. What is the weight of individual emulsifier that is to be taken to have a total weight of 7 gm ?**

Options
1. A = 5.8 gm and B = 1.2 gm
2. A = 5.6 gm and B = 1.4 gm
3. A = 1.2 gm and B = 5.8 gm
4. A = 1.4 gm and B = 5.6 gm

Question Type : **MCQ**
Question ID : **41652911985**
Option 1 ID : **41652946785**
Option 2 ID : **41652946783**
Option 3 ID : **41652946784**
Option 4 ID : **41652946782**
Status : **Not Answered**
Chosen Option : **--**

Q.33 **The rheological and functional properties of synovial fluid are impaired due to :**

Options
1. Decrease in the content of mucus
2. Increase in the content of hyaluronic acid
3. Increase in the content of mucus
4. Decrease in the content of hyaluronic acid

Question Type : **MCQ**
Question ID : **41652911978**
Option 1 ID : **41652946757**
Option 2 ID : **41652946754**
Option 3 ID : **41652946756**
Option 4 ID : **41652946755**
Status : **Not Answered**
Chosen Option : **--**

Q.34 For drug substances with highly variable pharmacokinetic characteristics the following Bioequivalence study design is used :

Options
1. Non-Replicate Design
2. Replicate Design
3. Non-Parallel Design
4. Parallel Design

Question Type : **MCQ**
Question ID : **41652911970**
Option 1 ID : **41652946724**
Option 2 ID : **41652946723**
Option 3 ID : **41652946725**
Option 4 ID : **41652946722**
Status : **Not Answered**
Chosen Option : **--**

Q.35 Theories of emulsification are characterized by one of the following EXCEPT :

Options
1. Phase inversion
2. Film formation
3. Monomolecular adsorption
4. Solid particle adsorption

Ques. from GPATINDIA test series- Major test

Question Type : **MCQ**
Question ID : **41652911980**
Option 1 ID : **41652946764**
Option 2 ID : **41652946763**
Option 3 ID : **41652946762**
Option 4 ID : **41652946765**
Status : **Answered**
Chosen Option : **4**

Q.36

For bitter drugs in paediatric formulations, excellent flavouring agent will be :

Options
1. Lemon syrup
2. Raspberry syrup
3. Black current syrup
4. Orange syrup

Question Type : **MCQ**
Question ID : **41652911984**
Option 1 ID : **41652946779**
Option 2 ID : **41652946780**
Option 3 ID : **41652946781**
Option 4 ID : **41652946778**
Status : **Answered**
Chosen Option : **4**

Q.37 The protein toxins that have been modified to reduce the toxicity without significantly altering the immunogenicity are known as :

Options
1. Toxoids
2. Vaccines
3. Sera
4. Antisera

Question Type : **MCQ**
Question ID : **41652911988**
Option 1 ID : **41652946794**
Option 2 ID : **41652946795**
Option 3 ID : **41652946797**
Option 4 ID : **41652946796**
Status : **Answered**
Chosen Option : **4**

Q.38 Leaching by immersion of crude material in a solvent is also known as :

Options
1. Precipitation
2. Evaporation
3. Maceration
4. Crystallization

Ques. from GPATINDIA test series- Grand Major test 3

Question Type : **MCQ**
Question ID : **41652911961**
Option 1 ID : **41652946688**
Option 2 ID : **41652946686**
Option 3 ID : **41652946687**
Option 4 ID : **41652946689**
Status : **Answered**
Chosen Option : **3**

Section : **Pharmacognosy**

Q.1 The Glycoside Scilliroside in red sqrill acts as :

Options
1. Insecticide
2. Molluscide
3. Acaricide
4. Rodenticide

Question Type : **MCQ**
Question ID : **41652912001**
Option 1 ID : **41652946846**
Option 2 ID : **41652946847**
Option 3 ID : **41652946848**
Option 4 ID : **41652946849**
Status : **Answered**
Chosen Option : **4**

Q.2 In *Cassia angustifolia* short-term drought :

Options
1. causes loss of leaf biomass
2. increases the concentration of sennosides A + B
3. causes death of the plant
4. decreases the concentration of sennosides A + B

Question Type : **MCQ**
Question ID : **41652911992**
Option 1 ID : **41652946811**
Option 2 ID : **41652946812**
Option 3 ID : **41652946810**
Option 4 ID : **41652946813**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Regholarrhenines A-F have been isolated from :

Options
1. Veratrums
2. Kurchi
3. Aconite
4. Areca

Question Type : **MCQ**
Question ID : **41652912000**
Option 1 ID : **41652946842**
Option 2 ID : **41652946843**
Option 3 ID : **41652946844**
Option 4 ID : **41652946845**
Status : **Not Answered**
Chosen Option : **--**

Q.4

The size of Lycopodium spores is :

Options 1. 45 μm

2. 35 μm

3. 25 μm

4. 15 μm

Ques. from GPATINDIA test series-
Major test

Question Type : **MCQ**
Question ID : **41652911997**
Option 1 ID : **41652946833**
Option 2 ID : **41652946832**
Option 3 ID : **41652946831**
Option 4 ID : **41652946830**
Status : **Answered**
Chosen Option : **3**

Q.5 Shellac is a resinous substance prepared from a secretion that encrusts the bodies of a scale insect :

Options 1. Alverites moschiferus

2. Viverra civet

3. Acipenser huso

4. Karria lacca

Question Type : **MCQ**
Question ID : **41652911995**
Option 1 ID : **41652946824**
Option 2 ID : **41652946825**
Option 3 ID : **41652946822**
Option 4 ID : **41652946823**
Status : **Not Answered**
Chosen Option : **--**

Q.6 Antiviral action of Neem in due to :

Options 1. Azadirachitin

2. Nimbin

3. Kaemferol

4. Nelanin

Question Type : **MCQ**
Question ID : **41652911993**
Option 1 ID : **41652946816**
Option 2 ID : **41652946814**
Option 3 ID : **41652946817**
Option 4 ID : **41652946815**
Status : **Answered**
Chosen Option : **1**

Q.7 In Gambir - fluorescin test the petroleum spirit layer shows a strong :

Options
1. yellow fluorescence
2. red fluorescence
3. green fluorescence
4. blue fluorescence

Question Type : **MCQ**
Question ID : **41652911998**
Option 1 ID : **41652946834**
Option 2 ID : **41652946835**
Option 3 ID : **41652946837**
Option 4 ID : **41652946836**
Status : **Not Answered**
Chosen Option : **--**

Q.8 The principal cultivation areas of pyrethrum flowers are in -

Options
1. Kenya
2. Malaysia
3. India
4. Sri Lanka

Question Type : **MCQ**
Question ID : **41652911996**
Option 1 ID : **41652946829**
Option 2 ID : **41652946828**
Option 3 ID : **41652946827**
Option 4 ID : **41652946826**
Status : **Not Answered**
Chosen Option : **--**

Q.9 Pungency of Zingiber officinale rhizome is due to the presence of :

Options
1. Gingerol
2. Gingeral
3. Commiphoric acid
4. Citral

Question Type : **MCQ**
Question ID : **41652911999**
Option 1 ID : **41652946840**
Option 2 ID : **41652946838**
Option 3 ID : **41652946841**
Option 4 ID : **41652946839**
Status : **Answered**
Chosen Option : **1**

Q.10 All members of this order are trees or shrubs; mostly evergreen with needle - like leaves ; monoecious or dioecious - sporophylls usually in cones. Resin ducts occur in all parts :

Options
1. Cycadales

2. Ginkgoales
3. Taxales
4. Coniferae

Question Type : **MCQ**
Question ID : **41652911994**
Option 1 ID : **41652946819**
Option 2 ID : **41652946820**
Option 3 ID : **41652946818**
Option 4 ID : **41652946821**
Status : **Not Answered**
Chosen Option : **--**

Section : **Pharmacology**

Q.1 **Metabolic acidosis does NOT occur during :**

Options
1. Wound healing
2. Chronic renal failure
3. Starvation
4. Uncontrolled diabetes mellitus

Question Type : **MCQ**
Question ID : **41652912028**
Option 1 ID : **41652946957**
Option 2 ID : **41652946955**
Option 3 ID : **41652946954**
Option 4 ID : **41652946956**
Status : **Answered**
Chosen Option : **2**

Q.2 **The adverse reaction associated with β-2 agonists administered by inhalation or nebulisation in the management of asthma does not include _____.**

Options
1. Tachycardia
2. Peripheral vasodilation
3. Fine tremor
4. Hypertension

Question Type : **MCQ**
Question ID : **41652912007**
Option 1 ID : **41652946873**
Option 2 ID : **41652946872**
Option 3 ID : **41652946871**
Option 4 ID : **41652946870**
Status : **Not Answered**
Chosen Option : **--**

Q.3 **Hematocrit 65% to 70% indicates :**

Options
1. Polycythemia

2. Hemophilia
3. Hypoxia
4. Anaemia

Question Type : **MCQ**
Question ID : **41652912006**
Option 1 ID : **41652946867**
Option 2 ID : **41652946869**
Option 3 ID : **41652946868**
Option 4 ID : **41652946866**
Status : **Answered**
Chosen Option : **1**

Q.4 **Which of the following cells are called scavenger cells ?**

Options
1. Mast cells
2. Natural killer cells
3. Marcrophages
4. Neutrophils

Question Type : **MCQ**
Question ID : **41652912026**
Option 1 ID : **41652946949**
Option 2 ID : **41652946948**
Option 3 ID : **41652946946**
Option 4 ID : **41652946947**
Status : **Answered**
Chosen Option : **2**

Q.5 **Which one of the following is NOT the role of Nitric oxide ?**

Options
1. Mediating microbicidal action of macrophages
2. Serving as neurotransmitter in CNS
3. Inducing platelet aggregation
4. Relaxing vascular smooth muscle

Question Type : **MCQ**
Question ID : **41652912019**
Option 1 ID : **41652946921**
Option 2 ID : **41652946918**
Option 3 ID : **41652946920**
Option 4 ID : **41652946919**
Status : **Answered**
Chosen Option : **2**

Q.6 **Which is NOT true about calcitriol ?**

Options
1. It enhances reabsorption of calcium and phosphate from bone

2. It is active form of Vit D_3
3. It prevents tubular reabsorption of calcium and phosphate
4. Enhances absorption of calcium and phosphate from intestine

Ques. from GPATINDIA test series- GRand Major test

Question Type : **MCQ**
Question ID : **41652912023**
Option 1 ID : **41652946934**
Option 2 ID : **41652946936**
Option 3 ID : **41652946937**
Option 4 ID : **41652946935**
Status : **Answered**
Chosen Option : **3**

Q.7 **Identify the false statement about benzodiazepines from the following :**

Options
1. Benzodiazepines cause convulsions
2. Benzodiazepines are useful in insomnia
3. Benzodiazepines produce muscle relaxation and loss of motor co-ordination
4. Benzodiazepines cause reduction of anxiety

Question Type : **MCQ**
Question ID : **41652912013**
Option 1 ID : **41652946896**
Option 2 ID : **41652946895**
Option 3 ID : **41652946897**
Option 4 ID : **41652946894**
Status : **Answered**
Chosen Option : **1**

Q.8 **Which of the following is 5-alpha reductase inhibitor ?**

Options
1. Finasteride
2. Gliclazide
3. Sildenafil
4. Polythiazide

Ques. from GPATINDIA test series- Minor test

Question Type : **MCQ**
Question ID : **41652912012**
Option 1 ID : **41652946890**
Option 2 ID : **41652946892**
Option 3 ID : **41652946893**
Option 4 ID : **41652946891**
Status : **Answered**
Chosen Option : **1**

Q.9 **Which of the following is NOT a cardioselective β blocker ?**

Options
1. Bisoprolol

2. Acebutolol
3. Pindolol
4. Nebivolol

Question Type : **MCQ**
Question ID : **41652912015**
Option 1 ID : **41652946902**
Option 2 ID : **41652946903**
Option 3 ID : **41652946904**
Option 4 ID : **41652946905**
Status : **Answered**
Chosen Option : **1**

Q.10 Cardiac output is :

Options
1. Volume of blood ejected by the auricles per beat
2. Volume of the blood ejected by the left ventricle per beat
3. Volume of blood ejected by the auricle per minute
4. Volume of the blood ejected by the left ventricle per minute

Question Type : **MCQ**
Question ID : **41652912005**
Option 1 ID : **41652946862**
Option 2 ID : **41652946863**
Option 3 ID : **41652946864**
Option 4 ID : **41652946865**
Status : **Answered**
Chosen Option : **3**

Q.11 Which of the following anticonvulsants have both inhibition of excitatory glutamatergic synapse and facilitation of GABA mediated Cl^- channel opening action ?

Options
1. Ethosuximide
2. Phenytoin
3. Topiramate
4. Valproate

Question Type : **MCQ**
Question ID : **41652912022**
Option 1 ID : **41652946933**
Option 2 ID : **41652946930**
Option 3 ID : **41652946932**
Option 4 ID : **41652946931**
Status : **Answered**
Chosen Option : **4**

Q.12

Match the following liver abnormalities with consequences :

(a)	Steatosis	(M)	Raised bilirubin level
(b)	Cholestasis	(N)	Slight rise in serum transaminase level
(c)	Hepatitis	(O)	Accumulation of fat droplets within liver cells
(d)	Fibrosis	(P)	Elevated liver function test (LFT's)

Options

1. (a) - (O)
(b) - (M)
(c) - (P)
(d) - (N)

2. (a) - (N)
(b) - (P)
(c) - (M)
(d) - (O)

3. (a) - (N)
(b) - (O)
(c) - (P)
(d) - (M)

4. (a) - (P)
(b) - (O)
(c) - (N)
(d) - (M)

Question Type : **MCQ**
Question ID : **41652912010**
Option 1 ID : **41652946885**
Option 2 ID : **41652946883**
Option 3 ID : **41652946884**
Option 4 ID : **41652946882**
Status : **Answered**
Chosen Option : **2**

Q.13 Characteristic microscopic features observed in Alzheimer's disease is :

Options

1. Depigmentation of substantia nigra
2. Demyelination of neurons in spinal cord
3. Presence of neuritic plaques containing Aβ-amyloid
4. Epidural haemoregic patches

Question Type : **MCQ**
Question ID : **41652912027**
Option 1 ID : **41652946950**
Option 2 ID : **41652946951**
Option 3 ID : **41652946952**
Option 4 ID : **41652946953**
Status : **Answered**
Chosen Option : **1**

Q.14 Numerous isomers of human liver P450 enzymes have been identified. It is not worthy that _____ alone is responsible for the metabolism of over 50% of the prescription drugs metabolized by liver.

Options

1. CYP2B6

2. CYP3A4
3. CYP1A2
4. CYP1A11

Ques. from GPATINDIA test series- Major test 13

Question Type : **MCQ**
Question ID : **41652912018**
Option 1 ID : **41652946915**
Option 2 ID : **41652946916**
Option 3 ID : **41652946914**
Option 4 ID : **41652946917**
Status : **Answered**
Chosen Option : **2**

Q.15 Testing of chemicals by OECD guideline No. 420 refers to which of the following :

Options
1. Repeated dose 28-day toxicity study in rodents
2. Acute oral toxicity by acute toxic class method
3. Acute oral toxicity by fixed dose procedure
4. Acute oral toxicity by up and Down procedure

Question Type : **MCQ**
Question ID : **41652912017**
Option 1 ID : **41652946913**
Option 2 ID : **41652946910**
Option 3 ID : **41652946911**
Option 4 ID : **41652946912**
Status : **Not Answered**
Chosen Option : **--**

Q.16 Which of the following directly inhibits Factor Xa ?

Options
1. Bivalirudin
2. Warfarin
3. Rivaroxaban
4. Dabigatran

Ques. from GPATINDIA test series- Grand Major test 5

Question Type : **MCQ**
Question ID : **41652912020**
Option 1 ID : **41652946925**
Option 2 ID : **41652946924**
Option 3 ID : **41652946922**
Option 4 ID : **41652946923**
Status : **Not Answered**
Chosen Option : **--**

Q.17 What is anaplasia ?

Options
1. Increase in size of cell
2. Lack of growth of cells

3. Morphological and functional resemblance to normal cells

4.
Morphological and functional alterations/changes, that are different from normal cells

Question Type : **MCQ**
Question ID : **41652912029**
Option 1 ID : **41652946960**
Option 2 ID : **41652946959**
Option 3 ID : **41652946958**
Option 4 ID : **41652946961**
Status : **Answered**
Chosen Option : **4**

Q.18 **Which of the following is true ?**

Excessive use of diuretics can lead to :

Options
1. Hypovolemic shock
2. Neurogenic shock
3. Cardiogenic shock
4. Hypervolemic shock

Question Type : **MCQ**
Question ID : **41652912025**
Option 1 ID : **41652946945**
Option 2 ID : **41652946942**
Option 3 ID : **41652946944**
Option 4 ID : **41652946943**
Status : **Answered**
Chosen Option : **4**

Q.19 Several different chemicals released by microbes and inflamed tissues attract phagocytes, this phenomenon is called as _____.

Options
1. Integrins
2. Emigration
3. Phagocytosis
4. Chemotaxis

Ques. from GPATINDIA test series-
Major test - Language differ

Question Type : **MCQ**
Question ID : **41652912003**
Option 1 ID : **41652946857**
Option 2 ID : **41652946856**
Option 3 ID : **41652946854**
Option 4 ID : **41652946855**
Status : **Answered**
Chosen Option : **4**

Q.20 The antiemetic activity of glycopyrronium is related to potent inhibition of _____ receptor both peripherally and centrally.

Options
1. H_1

2. $5HT_3$
3. M_1
4. D_2

Que from-Subject wise major test

Question Type : **MCQ**
Question ID : **41652912008**
Option 1 ID : **41652946874**
Option 2 ID : **41652946877**
Option 3 ID : **41652946875**
Option 4 ID : **41652946876**
Status : **Answered**
Chosen Option : **4**

Q.21 **Identify the drug which is not useful in the treatment of tuberculosis :**

Options
1. Gentamicin
2. Pyrazinamide
3. Streptomycin
4. Ciprofloxacin

Question Type : **MCQ**
Question ID : **41652912014**
Option 1 ID : **41652946900**
Option 2 ID : **41652946901**
Option 3 ID : **41652946899**
Option 4 ID : **41652946898**
Status : **Answered**
Chosen Option : **4**

Q.22 **The term 'aneurysm' refers to :**

Options
1. Abnormal connections in blood vessels
2. Abnormal growth of neurones near blood vessels
3. Permanent abnormal dilatation of blood vessel
4. Permanent blockage of blood vessels

Question Type : **MCQ**
Question ID : **41652912024**
Option 1 ID : **41652946940**
Option 2 ID : **41652946941**
Option 3 ID : **41652946939**
Option 4 ID : **41652946938**
Status : **Not Answered**
Chosen Option : **--**

Q.23 **Following are the facts regarding clinical applications of muscarinic receptor blocking drugs. Identify the false statement :**

Options
1. Used in the treatment of parkinson's disease is often an excercise in polypharmacy, since no single agent is fully effective.
2.

Marked reflex vagal discharge may stimulate sinoatrial or atrioventricular node to improve cardiac output.

3.
Mydriasis produced greatly facilitates opthalmoscopic examination of the retina and measurement of refractive error in uncooperative patient.

4.
Scopolamine is one among the old remedies used to treat sea-sickness

Question Type : **MCQ**
Question ID : **41652912021**
Option 1 ID : **41652946927**
Option 2 ID : **41652946926**
Option 3 ID : **41652946929**
Option 4 ID : **41652946928**
Status : **Answered**
Chosen Option : **1**

Q.24 Disturbances of oestrogen/progesterone balance could cause a relative deficiency of _____ leading to disturbances in production of dopamine and serotonin. This contributes for emotional disturbances and depression.

Options
1. Tyrosine
2. Co-factor A
3. Enzyme decarboxylase
4. Pyridoxine phosphate

Question Type : **MCQ**
Question ID : **41652912011**
Option 1 ID : **41652946886**
Option 2 ID : **41652946887**
Option 3 ID : **41652946889**
Option 4 ID : **41652946888**
Status : **Answered**
Chosen Option : **1**

Q.25 Production of an abnormal IgG immunoglobulin in Grave's disease causes :

Options
1. Thyrotoxicosis
2. Hypothyroidism
3. Rheumatoid arthritis
4. Multinodular goitre

Question Type : **MCQ**
Question ID : **41652912009**
Option 1 ID : **41652946878**
Option 2 ID : **41652946880**
Option 3 ID : **41652946879**
Option 4 ID : **41652946881**
Status : **Answered**
Chosen Option : **1**

Q.26 Glucocorticoids have following effects - EXCEPT :

Options

1. Resistance to stress
2. Lipolysis
3. Protein breakdown and glucose formation
4. Stimulation of immune responses

Question Type : **MCQ**
Question ID : **41652912002**
Option 1 ID : **41652946852**
Option 2 ID : **41652946851**
Option 3 ID : **41652946850**
Option 4 ID : **41652946853**
Status : **Answered**
Chosen Option : **1**

Q.27 What are sutures ?

Options
1. Non fibrous joints
2. Cartilaginous joints
3. Fibrous joints of the skull
4. Synovial joints

Question Type : **MCQ**
Question ID : **41652912004**
Option 1 ID : **41652946861**
Option 2 ID : **41652946859**
Option 3 ID : **41652946858**
Option 4 ID : **41652946860**
Status : **Not Answered**
Chosen Option : **--**

Q.28 Select the ulcer protective drug from the following :

Options
1. Sucralfate
2. Metronidazole
3. Misoprostol
4. Oxyphenonium

Question Type : **MCQ**
Question ID : **41652912016**
Option 1 ID : **41652946906**
Option 2 ID : **41652946907**
Option 3 ID : **41652946908**
Option 4 ID : **41652946909**
Status : **Answered**
Chosen Option : **1**

GATE - 2009

Time : 3 Hours

Maximum Marks : 150

Q. 1-20 carries one mark each

Q.1 **Different species of *Ephedra* can be identified by observing the nature of**

(A) Inner surface
(B) Outer surface
(C) Trichomes
(D) Scaly leaves

Q.2 **Indian Rhubarb can be distinguished from Rhapontic Rhubarb by the fluorescence it emits under UV light. Indian Rhubarb gives**

(A) Deep yellow
(B) Deep violet
(C) Organge
(D) Pale green

Q.3 **Genetically modified species of *Papaver* namely *Papaver bractreatum* and *Papaver orientale* contain the predominanat alkaloid**

(A) Morphine
(B) Codeine
(C) Thebaine
(D) Narcotine

Q.4 **Increased risk of atherosclerosis is associated with decreased serum levels of**

(A) LDL
(B) HDL
(C) Triglycerides
(D) VLDL

Q.5 **A peptide hormone which inhibits bone resorption and given as a nasal spray is**

(A) Cortisol
(B) Alendronate
(C) Calcitonin
(D) Calcitriol

Q.6 **An inorganic ion which is used prophylatically in bipolar depression is**

(A) Valproate
(B) Lithium
(C) Chromium
(D) Valium

Q.7 **A β-lactamase inhibitor or which contains an 1-oxopenam structure is**

(A) Tazobactam sodium
(B) Clavulanate potasium
(C) Sulbactam sodium
(D) Thienamycin