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	Total Number of Pages: 01 8 th Semester Regular Examination 2018-19 CLINICAL PHARMACY & PHARMACOVIGILANCE BRANCH: B.Pharma Max Marks: 100 Time: 3 Hours Q.CODE: F120 Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III. The figures in the right hand margin indicate marks.												
Q1	a) b) c) d) e) f) g) h) i)	 Write any two formulas for calculating Pediatric dose. Mention the normal values and its significance of any two Hematological tests. What happens when Tetracycline and milk are given together? Name few drugs which should not be administered in renal failure patients & why? State reasons behind irrational use of drugs. Give two examples of Drug-drug interaction. What are the different types of Adverse drug reaction? What do you mean by patient medication history? 										(2 x 10)	
Q2	a) b) c) d) e) f) g) h) i) k) l)	Name the different hematological tests used in evaluation of disease state. Explain Drug information services. Justify the role of determination of clearance of drug in clinical pharmacy. Explain the Pharmacodynamic aspect of drug interaction. Write notes on the role of pharmacist in rational drug use. Justify the need for dose adjustments for geriatric patents. What are the duties of a Clinical pharmacist towards ward round participation? Describe the significance of 'Half-Life' in clinical pharmacy. Design the drug dosing in details in renal failure patients. Illustrate about the different tests used in Thyroid profile.									(6 x 8)		
Q3		Only Long Answer Ty Discuss the various as pharmacist.		,	Answ		-			•	e role	es of a Clinical	(16)
Q4		Define and describe Dr suitable examples.	ug Intera	action s	pecial	ly foc	using	on F	harm	acoki	netic	interaction with	(16)
Q5		Discuss the concept of	Pharma	covigila	nce el	abora	ately.						(16)
Q6		Classify different clinica	l laborat	ory tes	ts used	d in ca	ardia	c and	renal	disoı	ders.		(16)

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B.Pharm 15PH805.E.3

8th Semester Regular Examination 2018-19 DRUG DISCOVERY & DEVELOPMENT

BRANCH: B.Pharma Max Marks: 100 Time: 3 Hours Q.CODE: F109

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-III and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10)

(2 x 10)

- a) Explain why -NH₂ is considered as an isostere of -OH or vice versa?
- b) Name one five-membered heterocyclic ring which is considered as a non-classical isostere of —COOH group and remained most effective in drug discovery.
- c) A drug ionizes to 50% at pH 2.3. Calculate its pKa and state whether the drug is acidic or basic.
- d) Write the chemical nature of bead, solid support and Linkers in combinatorial chemistry.
- e) Name four commercial/non-commercial databases of available compounds for virtual screening.
- f) Write the significance of Molar refractivity in Drug Design.
- g) How does an MD simulation works?
- h) Name the different steps for non-hydrated docking of a ligand into a protein active site.
- i) Write the three main aspects of Pharmacophore mapping.
- j) Explain in which method of synthesis you will get higher yield of product- consecutive or convergent type.

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)

 (6×8)

- a) Derive Hansch Equation.
- **b)** Explain the different favorable and unfavorable forces involved in drug-receptor binding interaction.
- c) Define and classify Bioisosteres with examples.
- d) Justify how Craig plot helps you to identify the substituents that are particularly responsible for +ve π and σ parameters, -ve π and σ parameters, and one +ve and one -ve parameter.
- e) Analyze Free-Wilson approach.
- f) Distinguish between Multi-pin methodology and tea bag methodology in parallel solid phase library design.
- g) Distinguish between solid phase synthesis and solution phase synthesis.
- h) Justify which methods are suitable for which cases
 - i) Target based virtual screening
 - ii) Pharmacophore-based virtual screening.
- i) Differentiate between Consecutive and Convergent synthesis.
- j) Differentiate Between CoMFA and CoMSIA.
- k) Differentiate between Monte Carlo and Metropolis algorithm used in MD simulation
- I) Explain the working of tyrosine kinase receptors.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- What should De Novo ligand design software do? What are the different classes of ligand design methods? (16)
- Q4 Explain the various strategic approaches developed in retrosynthesis. (16)
- Q5 Explain the method of combinatorial lead optimization of dihydrofolate reductase inhibitors. (16)
- Write a note on various physicochemical factors affecting drug action. (16)

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8th Semester Regular Examination 2018-19 HERBAL DRUG TECHNOLOGY BRANCH: B.Pharma

> Max Marks: 100 Time: 3 Hours Q.CODE: F110

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-III and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10)

(2 x 10)

- a) What is healing agent? Write examples of it.
- b) Define conventional drugs with suitable examples.
- c) How the herbal drugs are safety? Justify it with suitable example.
- d) Write the definition of herbal drug.
- e) State the definition of nutraceuticals.
- f) What is ash value?
- **g)** Write the definition of herbal cosmetics.
- h) What are the different examples of herbal medicines used in diarrhea?
- i) Define the term "Quality Control" and "Quality Assurance".
- i) Enumerate the term "Patent".

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6

(6 x 8)

- a) Differentiate herbal verses conventional drugs with suitable examples.
- **b)** Explain the analytical profile of Aegle marmelos.
- c) Illustrate the importance of herbal therapies.
- d) Write down the methods used for determination of extractive value.
- e) Describe about herbal toxicity and their interactions.
- f) What are the benefits of patent protection?
- g) Write the classification of herbal nutraceuticals with suitable examples.
- **h)** Write notes on patent application.
- i) Explain the preparation methods and uses of herbal medicines against skin infections.
- j) Write the procedure for determination of pesticide residue for quality control of herbal drugs.
- **k)** Explain intellectual property rights with special reference to phytoconstituents.
- 1) Develop the method for determination of tannins from tannin containing drugs.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Describe the different parameters for quality control and quality assurance of herbal ingredients as per WHO guidelines. (16)
- Explain the preparation of any two numbers of herbal medicines used in the treatment of cold. (16)
- Discuss the various advantages of herbal cosmetics. Write some examples of herbs used in the preparation of herbal cosmetics. (16)
- Q6 Enumerate the detail analytical profile of Brahmi and Gymnema sylvestre. (16)

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Total Number of Pages: 01 B.Pharm PH.8.5

8th Semester Back Examination 2018-19 PHARMACEUTICAL MANAGEMENT BRANCH: B.Pharma

Time: 3 Hours Max Marks: 70 Q.CODE: F195

Answer Question No.1 which is compulsory and any FIVE from the rest.

The figures in the right hand margin indicate marks.

Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What is the role of reference check in recruitment process? What do you understand by pharmaceutical marketing? What is delegation of authority in Management? What is a bank reconciliation statement? 360 degree appraisal is conducted for the promotion to top management. Is it true? What do you mean by book keeping in accounting? What do you understand by the term target market? What is motivation? What is survey method in demand forecasting? How packaging is important aspect of pharmaceutical product management?	(2 x 10)
Q2	a) b)	Briefly explain AIDAS formula. Explain different levels of management and their area of responsibility.	(5) (5)
Q3	a) b)	How a leader is different from a manager. What is plant layout and its objectives?	(5) (5)
Q4	a) b)	Briefly discuss scientific management theory by FW table. Write a short note on inventory control.	(5) (5)
Q5	a) b)	Distinguish between journal and ledger. Explain different personal qualities of a pharmacist.	(5) (5)
Q6		Describe performance evaluation techniques.	(10)
Q7		Briefly discuss inventory control technique.	(10)
Q8	a) b) c)	Write short answer on any TWO: Demand curve. Communication process. Staffing functions.	(5 x 2)

(16)

(16)

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	PHARM.MANAGEMENT											
	BRANCH : B.Pharma											
	Max Marks: 100											
	Time : 3 Hours											
	Q.CODE: F119											
Ansv	ver Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and a	ny TWO										
	from Part-III.											
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	Part- I											
Q1	Only Short Answer Type Questions (Answer All-10)											
а	, and the second se											
b												
C	·											
d e	·											
f	· · · · · · · · · · · · · · · · · · ·											
g												
h	What do you mean by book keeping in accounting?											
i)	· · · · · · · · · · · · · · · · · · ·											
j)	What do you understand by the term target market?											
	Part- II											
Q2	Only Focused-Short Answer Type Questions- (Answer Any Eight out of	(6 x 8)										
	Twelve)											
a	·											
b c												
d												
	organization.											
е												
f												
g												
h i)	·											
j)												
k												
l)	What is a demand curve & why does it slopes downward?											
	Part-III											
	Part-॥। Only Long Answer Type Questions (Answer Any Two out of Four)											
Q3	Briefly discuss administrative functions of management starting from planning and	(16)										
	ending in controlling.	•										
0.4		(4.5)										
Q4	Briefly discuss the traditional and contemporary techniques of inventory control.	(16)										

Describe the performance evaluation process, along with its techniques.

Briefly explain different distribution channels with special reference to importance of retail industry in pharama business.

Q5

Q6

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8 th Semester Back Examination 2018-19 QUALITY ASSURANCE AND GMP BRANCH: B.Pharma Time: 3 Hours Max Marks: 70 Q.CODE: F102 Answer Question No.1 which is compulsory and any FIVE from the rest															
Q1	a) b) c) d) e) f) g) h) i)	Determine the various analytical validation parameters? Write the criteria of Quality policy for an organization? How the cleaning and sanitation maintenance of the premises and personnel is done? Why warehousing practices are followed in the storage of materials and products? Determine the role of HVAC system in the environment control? State the terms Efficiency and Effectiveness?													
Q2	a) b)	Explain the roots Design the v													(5) (5)
Q3	a) b)	· · · · · · · · · · · · · · · · · · ·									(5) (5)				
Q4	a) b)	Explain the g										ments	s?		(5) (5)
Q5	a) b)	Illustrate the Design the features?	•			•									(5) us (5)
Q6		Discuss the I	benefit	s, cer	tificat	ion, e	leme	nts a	nd va	rious	stand	lards	of IS) ?	(10)
Q7		Describe the rules?	e featu	res o	f GM	P and	d cG	MP a	s per	drug	ıs and	d cos	metic	s act	& (10)
Q8	a) b) c)	Write short and Total Quality Standard Op Quality Audit	Managerating	geme	ent		:								(5 x 2)