Total Number of Pages: 01	B.Pharma. PH.5.3

5<sup>th</sup> Semester Back Examination 2017-18 Applied Microbiology BRANCH: B.Pharma. Time: 3 Hours

Time: 3 Hours Max Marks: 70 Q.CODE: B120

		Max Marks: 70 Q.CODE: B120	
		Answer Question No.1 which is compulsory and any five from the res The figures in the right hand margin indicate marks.	st.
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What does generation time mean? What is incubation period? What is the difference between 'stain' and 'strain'? What is the meaning of mutation? Give one example of a mutagen. Name one thermophilic and one mesophilic microorganism. Why does the microbial growth curve plateau at the stationary phase? Differentiate between transformation and transduction. What is the other name of vitamin B12 and which microorganism can produce it? Penicillin and Streptomycin are produced by which fungi? What is dimorphic fungus? Give an example. What is exotoxin? Define pyrogen.	(2 x 10)
Q2	a) b)	Write a note on membrane filtration technique. Differentiate between probiotics and prebiotics.	(5) (5)
Q3	a) b)	Write down the different methods of microbial culture preservation. Describe the principle of radiation sterilization.	(5) (5)
Q4	a) b)	Differentiate between flagella, cilia and fimbrae. Briefly describe the basic features of Gram negative bacterial cell wall.	(5) (5)
Q5	a)	Differentiate between selective and differential media stating examples of each.	(5)
	b)	Briefly write about the different microbiological assays of antibiotics.	(5)
Q6	a)	Describe the principle of Zeihl Neelsen staining. Which organisms can be	(5)
	b)	viewed using this staining technique? Differentiate between plasmid and genomic DNA.	(5)
Q7		Describe the working principle of an autoclave with mechanism of killing of microbes.	(10)
Q8	a) b) c) d)	Write short answer on any TWO: Lyophilization. Protoplast fusion. SEM. R.W. Coefficient.	(5 x 2)

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		Answer Que Th	Cor	th Se mmu n No. ures	nity   E	Phar BRAN Ti Ma Q. nich i	macy ICH : me: 3 ax Ma COD s col	/ and B.Pl 3 Hod arks: E: B mpul	l Hea harm urs 70 119 sory	Ith E a. and	duca	ation	from th	ne res	PH.5.11
Q1	a) b) c) d) e) f) g) h) i)	Answer the the What are the What is Shoot Define physic What is Epide What do you Write the two Write two live Which organ Differentiate I What is trace	objeck? cal he emiolomear disea vacci is afficients	ctives calth a ogy? n by b ases cines ected een tu	of first and malancoccur along in tra	ental ental eed die due t with ichom	et? Go ma disea and le	ive ex Inutrit ses ir 'hat is prom	ion. whice caus	h the ative	orga				(2x10)
Q2	a) b)	•									Э	(5) (5)			
Q3	a) b)	Explain demo									acept	ion.			(5) (5)
Q4	a) b)	Discuss desc Write about the	•	•					nity he	ealth o	care.				(5) (5)
Q5	a) b)	Write on eme Write short no									PR).				(5) (5)
Q6	a) b)	Write about o													(5) (5)
Q7	a) b)											(5) (5)			
Q8	a) b) c) d)	Write short a Legal require MDR - TB. Classification Sabin vaccine	ment of di	s for e	estab	lishme		Reta	il Dru	g Sto	re.				(5 x 2)

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PH.5.9 5 <sup>th</sup> Semester Back Examination 2017-18 Pharm. Analysis - II BRANCH : B.Pharma												B.Pharma PH.5.9		
Time: 3 Hours Max Marks: 70 Q.CODE: B123 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.												st.		
Q1	a) b) c) d) e) f) g) h) i)	Answer the What is the s Define the te Mention the What is the p What is the e Mention the Mention the What is the r What is the r Under the te	elf indicarm oxidizarm oxidizafactors the orinciple in quivalen application application edox indical representation application ell representation dell representation dell'indication dell'indica	at affecting and at affect weigh on of plons of plots cator?	d reduct diazed in cot?  H meteotenti	cing a otizat oulom er.	tion tinetry?	trime	try.					(2 x 10)
Q2	a) b)	Explain in de Explain the t							metr	y				(5) (5)
Q3	a) b)	Define the te Write down to	-	-			-		ınd tu	rbido	metry			(5) (5)
Q4	a) b)	How will you Explain the t				-			ample	e.				(5) (5)
Q5	a) b)	What are the differences between zone electrophoresis and gel electrophoresis?  Discuss the process involved in gel electrophoresis.										(5) (5)		
Q6	a) b)	· · · · · · · · · · · · · · · · · · ·									(5) (5)			
Q7		Explain the pestimation.	orinciple a	and pro	cedur	e invo	olved	in Kje	eldah	l metł	nod fo	r nitrog	gen	(10)
Q8	a) b)	Write short Radio immu Karl Fischer	no assay	on any	TWO	:								(5 x 2)

c) Polarography
d) Amperometry

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5<sup>th</sup> Semester Back Examination 2017-18 Pharmaceutics –IV (Pharm. Tech. -I) BRANCH: B.Pharma. Time: 3 Hours

Time: 3 Hours Max Marks: 70 Q. Code: B118

	A	Q. Code: B118  nswer Question No. 1 which is compulsory and any five from the rest  The figures in the right hand margin indicate marks.	
<b>Q</b> 1	a) b) c)	Answer the following questions: Classify liquid dosage form according to the route of administration. Write on uses of Drops as liquid formulation. Add a note on multiple emulsion.	(2x10)
	d)	What is phase inversion temperature and what is its significance?	
	e) f)	Define suspension and mention the difference between flocculated and deflocculated suspension. What is the need of granulation?	
	g) h)	What type of problems may arise if lubricant is not added during tablet preparation?  Differentiate between cream and paste.	
	i)	Write advantage of lanolin as ointment base.	
	j)	How suspending agents act in a suspension ?Give some examples of suspending agents.	
<b>Q2</b>	a)	Write short notes on Mouth dissolving tablet and Chewable tablet with example of each.	(5)
	b)	Explain defects found in tablet dosage form during manufacturing ,and what are the reasons?	(5)
<b>Q</b> 3	a) b)	Write about the types and rationale of different coating processes.  Explain equipments involved in coating.	(5) (5)
<b>Q</b> 4	a)	What are the problems associated with the manufacturing of liquid dosage forms?	(5)
<b>Q</b> 5	p)	Discuss in brief on various types of monophasic liquid dosage forms.  Describe any one industrial scale filling machines for hard gelatin capsules.	(5) (5)
<b>2</b> 6	a) b) a)	Write in brief on quality control and storage of capsule dosage form.  What are the ingredients needed to manufacture soft gelatin shells and What types of different soft gel fill matrices are used?	(5) (5)
	b)	What are the rationale for the selection of soft gels dosage forms?	(5)
<b>Q</b> 7		Write in detail on pharmaceutical Granulation equipments.	(10)
28	a) b) c) d)	Write short answer on any two of the following: Write on the mechanism of granule formation. Write a short note on packaging system of liquid dosage forms. Ideal properties of packaging materials. Discuss about various types of creams.	(5x2)

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Q1		Multiple Choice	e Questio	ns:							
	a)	Rhein is a A) Sterol	Rhein is a								(2 x 10)
	b)	Keller-Kiliani tes	•								
	c)	Anthranilic acid A) Tryptophan Ornithine	is an inter		in the bid yrosine	osynthe	esis of C) Phei	nyl ala	nine	D)	
	d)	Under UV radia	tion gentia	an extrac	t shows .			fluc	resce	nce.	
	e)	Cassia obovata A) PaltheSenna Dog Senna	is commo	nly know	n as		C) Egy			D)	
	f)	Glycyrrhiza belo Liliaceae Pinacee	В) І	_egumino	osae	C) So	olanaceae	<b>;</b>		D)	
	g)	Strophanthus gl A) Violet Cream		+ 80 % F Crimson			C) Eme	erald gi	reen	D)	
	h) i)	Bitter wood obta									
	:\		Gibberalin B) Synthetic auxin C) Natural auxin D) Cytokinin						ytokinin		
	j)	American	Panaxquinquefolium represents merican B) Chinese C) Korean D) Japanese ariety of ginseng.								
Q2	a) b) c) d) e) f) g) h) i)	<ul> <li>Give examples of two cytotoxic compounds obtained from marine source.</li> <li>Write down the biological source of Senega.</li> <li>Define the term 'totipotency'.</li> <li>Write down the biological sources of Trypsin and Pepsin. How would you detect anthraquinone glycoside in a crude specimen?</li> <li>Write down the biological source, chemical constituents and uses of Red Squill.</li> <li>Give examples of two probiotics.</li> <li>Write down the uses of Psoralea.</li> </ul>									(2 x 10)
Q3	a) b)	Define and clas Write an accoun				ments	for the in	vitro g	rowth	of plant	(5) (6)
	c)	tissue.  Write down the applications of plant tissue culture in the production of bioactive plant metabolites.									(4)

Q4	a) b)	Define and classify glycosides with suitable examples. Write down the biological source, microscopic features, chemical constituents and uses of Indian Senna.	(5) (10)					
Q5	a) b)	Describe schematically the 'Sta-Otto' method of isolation of glycosides. Write down the biological sources, chemical constituents and uses of Chirata and Rhubard.	(5) (10)					
Q6	a) b)	Write down the microscopic features of aloe leaf.  Describe the methods of cultivation and collection of Digitalis and Dioscorea.	(5) (10)					
Q7	a)	and steroidal aglycones.						
	b)							
Q8	a)	Write down the biological sources, method of preparation, physical properties	(10)					
	b)	and uses of papain and diastase. Write note of poisonous plants of India.						
Q9	a)	Give an account on marine drugs with special emphasis on antimicrobial	(10)					
	b)	agents and marine toxins. Write short note on nutraceuticals.	(5)					

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5<sup>th</sup> Semester Back Examination 2017-18 Pharmacology – I BRANCH : B.Pharma.

Time: 3 Hours Max Marks: 70 Q.CODE: B122

		Q.CODE: B122  Answer Question No.1 which is compulsory and any five from the re  The figures in the right hand margin indicate marks.	st.
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions:  Drug metabolism Blood brain barrier Tolerance Teratogenicity Therapeutic index Idiosyncrasy Plasma t1/2 Bioavailability Prodrug Apparent volume of distribution	(2 x 10)
Q2	a) b)	Define and classify receptor. Briefly discuss about enzyme linked receptor.	(5) (5)
Q3	a) b)	Write short notes on : Synergism Antagonism	(5) (5)
Q4	a) b)	Discuss the different factors that responsible for parkinsonism.  Briefly discuss about L-dopa as antiparkinsonism drug.	(5) (5)
Q5	a) b)	Define analgesic. Classify analgesic drugs. Write down the mode of action, therapeutic application and side effect of Aspirin.	(5) (5)
Q6	a) b)	Define and classify sedative and hypnotics. Write shortly about Benzodiazepine.	(5) (5)
Q7	a)	What are the different stages of general anaesthesia.	(5)
	b)	Illustrate the term pre-anaesthetic medication.	(5)
Q8	a) b) c)	Write short answer on any TWO : Allopurinol Narcotic analgesic Tricyclic antidepressant	(5 x 2)