

PAP-003-1015021 Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

October / November - 2018

IC - 501: Pharmaceuticals

Faculty Code: 003

Subject Code: 1015021

Time: $2\frac{1}{2}$	1 2 Ho	ours] [Total Marks : 70	0
Instruction	ons	(2) All the questions are compulsory and carry 1 marks each.	4
		(3) Draw labeled diagram wherever necessary.	
		(4) Assume suitable data.	
1 (a) A	Ansv	ver the following questions:	4
((1)	A small factory known as "Bengal Chemicals and Pharmaceutical Works" was established in city.	
((2)	Who was the chairman of third edition of Indian pharmacopoeia ?	
((3)	Dry heat sterilization is carried out by using oven. True/False ?	
((4)	Tablet or lozenge kept beneath the tongue, is type of route of drug administration?	
(b)	Ansv	ver in brief: (any one out of two)	2
((1)	Write a brief note on pyrogen testing.	
((2)	Discuss glass as a packaging material.	
	` '		3
` '	(1)	Enlist various routes of drug administration with examples.	
((2)	Discuss primary, secondary and tertiary packaging materials.	
(d) '	Writ	e a note on: (any one out of two)	5
((1)	Explain various sterilization techniques in detail.	
((2)	Discuss history of Indian Pharmacopoeia in detail.	

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2	(a)	Ans	swer the following questions:	
		(1)	Phytochemicals are medicinally active and derived from sources.	
		(2)	Abscisic acid is also known as	
		(3)	Give full form of TLC.	
		(4)	Which instrument is used to determine moisture content available in crude drugs?	
	(b)	Ans	wer in brief: (any one out of two)	2
		(1)	Define:	
			(a) Stomatal No.	
			(b) Vein Islet No.	
		(2)	What is Trichomes ?	
	(c)	Ans	wer in detail : (any one out of two)	3
		(1)	Explain morphological evaluation of crude drug in brief.	
		(2)	Write a note on collection of crude drugs.	
	(d)	Write a note on: (any one out of two)		5
		(1)	Explain plant growth regulators in detail.	
		(2)	Discuss classification of crude drugs with examples.	
3	(a)	Ans	wer the following questions:	4
		(1)	Surgical dressing is also known as	
		(2)	Ideal dressing should be porous to water vapor. True/False ?	
		(3)	Give full form of HLB.	
		(4)	Give two examples of antioxidants.	
	(b)	Ans	wer in brief: (any one out of two)	2
		(1)	What are pharmaceutical excipients ? Give examples.	
		(2)	Enlist any four features of dressing:	
	(c)	Ans	wer in detail : (any one out of two)	3
		(1)	Write a short note on wound repair.	
		(2)	Discuss surgical gauze in detail.	
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(d)	Write a note on: (any one out of two)		
		(1) Write a detailed note on sutures and ligatures.	
		(2) Discuss:	
		(a) Preservatives	
		(b) Coating agents	
4	(a)	Answer the following questions:	4
		(1) Carbohydrates are polyhydroxy amide. True/False?	
		(2) Give general molecular formula of Terpenoid.	
		(3) Aspirin is also known as	
		(4) is the starting raw material for synthesis of Propranolol drug.	
	(b)	Answer in brief: (any one out of two)	2
		(1) Give synthesis of Atenolol drug.	
		(2) Discuss hypertensive agent with example.	
	(c)	Answer in detail: (any one out of two)	3
		(1) Give synthesis of Paracetamol.	
		(2) Write synthesis of Hexobarbitone.	
	(d)	Write a note on: (any one out of two)	5
		(1) Give synthesis of:	
		(a) Pentobarbital	
		(b) Mefenamic acid	
		(2) Give synthesis of:	
		(a) Ibuprofen	
		(b) Aprobarbital	
5	(a)	Answer the following questions:	4
		(1) Which microorganism is used for production of vinegar ?	
		(2) During glucose fermentation, formic acid is finally converted in to and	
		(3) Enzymes are also called as	
		(4) Enzymes activity is dependent on temperature. True/False ?	

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- (b) Answer in brief: (any one out of two) 2
 - (1) Draw only diagram of structure of bacteria.
 - (2) Write synthesis of Ephedrine used as alkaloid.
- (c) Answer in detail: (any **one** out of two)
 - (1) Explain factors affecting enzyme activity.
 - (2) Discuss catabolism of lipids.
- (d) Write a note on: (any one out of two)
 - (1) Explain manufacturing of lactic acid with diagram.
 - (2) Describe manufacturing of penicillin via fermentation method.

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