Subject Code: B132104/R13

II B. Pharmacy I Semester Regular Examinations Dec/Jan – 2014-15 PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

Question Paper Consists of Part-A and Part-B Answering the question in Part-A is Compulsory, Three Questions should be answered from Part-B

PART-A

- 1. (i) Write the differences between prokaryotes and eukaryotes.
 - (ii) Explain the different types of nutrient media.
 - (iii) Describe briefly the techniques of preservation of microbial cultures.
 - (iv) Explain the mode of action of antimicrobial agents.
 - (v) What are different types of mutagens, explain the mode of action of physical mutagens.
 - (vi) Write principle and methods involved in assay of antibiotics. [3+3+4+4+4]

PART-B

2. (a) (b)	Explain the prokaryotic cell structure with a neat labeled diagram Discuss the pharmaceutical significance of bacteria and viruses.	[8+8]
3. (a) (b)	Explain the origin and scope of pharmaceutical microbiology. Discuss about the different techniques of isolation of microorganisms.	[6+10]
4. (a)) Explain the effects of environmental factors on bacterial growth and mention the different stages of bacterial growth curve.	
(b)	Write about construction and operation of an autoclave with a neat diagram.	[10+6]
5.(a) (b)	Discuss about the genetic recombination and gene regulation in bacteria. Explain the official methods for sterility testing of pharmaceuticals?	[8+8]
6. Discuss about the etiology, source of infection, diagnosis, mode of transmission and		
prevention and control of the following diseases.		
	(a) Tuberculosis	
	(b) Bacillary dysentery	
	(c) Infective hepatitis	
	(d) Syphilis	[4+4+4+4]
7 (a) Write the microbial source and applications of following pharmaceutical products		

- 7.(a) Write the microbial source and applications of following pharmaceutical products
 - (i) Antibiotics
 - (ii) Amino acids
 - (b) Define disinfectant with few examples. Discuss about their mechanism of action. [8+8]

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