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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER- V• EXAMINATION - SUMMER -2020

Subject Code: BP504TP Subject Name: Pharmaceutical Microbiology Time: 2:30 PM TO 5:30 PM Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			20
Q.1	(a) (b)	How is preparation of microbial specimen done for compound microscopy? Write a brief note on (any one) i. Phase contrast Microscopy ii. Flourescence Microscopy iii. Electron Microscopy	06 05
	(c)	What are Differential stains? Write on principle and procedure citing a suitable example.	05
Q.2	(a) (b) (c)	Draw a labeled diagram of a Prokaryotic cell. Write on (any two) i. Cell wall of Gram positive and Gram negative cell ii. Endospores iii. Ribosomes Give differences between a Eukaryotic cell and a Prokaryotic cell.	06 05 05
Q.3	(a) (b) (c)	Write on different Nutrient media in details. Give methods of Preservation of bacterial cultures. Explain methods of Direct measurement of microbial growth.	06 05 05
Q.4	(a)(b)(c)	Enumerate Physical methods of microbial control and write on Autoclaving with a labeled diagram Classify Disinfectants. Enumerate their methods of evaluation. Write on Ethylene oxide as chemo sterilizer. Write in brief on (any one) i. Filtration sterilization ii. Radiation sterilization	06 05 05
Q.5	(a)(b)(c)	Write in defects (any one) i. Viruses ii. Classification of Fungi Give objective and Pharmacopoieal method for Sterility testing of Water for Injection. Write on various methods of Microbiological Assay explaining standardization of an antibiotic.	06 05 05
Q. 6	(a) (b) (c)	Write on : Laminar flow equipments Write on : Different sources of contamination Write on : Clean area classification	06 05 05
Q.7	(a) (b)	What are called Microbial Spoilages? Give their types. Write on factors affecting spoilage of pharmaceutical products by microbes. Differentiate between a Bacteriostatic and a Bacteriocidal agent giving suitable examples.	06 05
	(c)	Write on Biochemical tests for identification and classification of bacteria.	

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