Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – V • EXAMINATION – SUMMER • 2014

•		de: 250002 Date: 06-06-2014 me: Pharmaceutical Microbiogy-I	
•		0 am - 01:30 pm Total Marks: 80	
Instru	2. M	ttempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a) (b) (c)	Define Microbiology. Give its pharmaceutical applications Give the morphological classification of bacteria with examples. Give the cultivation methods for microorganisms.	06 05 05
Q.2	(a) (b) (c)	Give the nutritional requirements for microorganisms Give schematic diagram of bacterial cell. Give the broad classification of microscope with its applications	06 05 05
Q.3	(a) (b) (c)	Give the isolation techniques for microbes.  Define disinfectant. Give its classification.  Give required culture media and test organism and incubation condition for sterility testing as per IP.	06 05 05
Q.4	(a) (b) (c)	What is abiogenesis? Give the methods for sterilization. Explain cold sterilization methods. Give the test organisms required for antibiotic assay of Ampicillin, Chloremphenicol, Doxycycline, Erythromycin, Tetracyline	06 05 05
Q.5	(a) (b) (c)	Give the evaluation of Disinfectant. Explain Rideal-Walkar test. Give the various methods for bacterial counts. Explain turbidometric method with its applications.  Give the difference between prokaryotic cell and eukaryotic cell.	06 05 05
Q. 6	(a) (b) (c)	Explain the diffusion method for antibiotic assay Give the validation of sterilization processes. Give the difference between gm+ve microorganisms and gm - microorganisms	06 05 05
Q.7	(a) (b) (c)	What is bergey's manual? Differentiate dry heat sterilization and moist heat sterilization Explain the vitamin assay.	06 05 05

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