Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER-V • EXAMINATION – WINTER -2020

Subj	ect Code:BP504TP	Date:	11/01/2021	
Time	ect Name: Pharmaceutical Microbiology : 10:30AM TO 12:30PM ctions:	Tota	l Marks: 54	
1. 2. 3.	Attempt any THREE questions from Q-1 to Q-6. Q.7 is compulsory to attempt. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
Q.1	 (a) Define microscopy. Discuss specimen preparation for electro (b) Describe physical, chemical and biological monitors for ster (c) Discuss sterility testing of sulphacetamide eye drops as per I 	ilization		06 05 05
Q.2	 (a) Explain applications of animal cell culture in pharmaceutical (b) Discuss standards for clean room classifications and its applic (c) Enlist suitable method for sterilization of following: 1. i.v sets 2. Culture media 3. Milk 4. Serum 5. Rubber closures 7. Suturing needle 8. Blanket 9. Eye ointment 10. Paraffin oil 	ications.		06 05 05
Q.3	 (a) Describe lytic and lysogenic cycle for virus multiplication. (b) Draw a well labeled lay out of aseptic area. (c) Write a note on: Bacterial endospore. 			06 05 05
Q.4	 (a) Classify staining techniques. Explain Gram staining in detail (b) Name organisms used to perform microbiological assay of fer 1. Tetracycline 2. Candidicin 3. Mitomycin 4. Ampicillin 5. Chlo (c) Elaborate types of spoilage in pharmaceutical formulations. 	ollowing		06 05 05
Q.5	 (a) Classify sterilization techniques. Explain Autoclaving in deta (b) Write a note on transformed cell cultures with examples. (c) Describe contribution of Louis Pasteur in Microbiology. 	ail.		06 05 05
Q. 6	 (a) Define total and viable counts. Discuss methods for measure (b) Write a note on anaerobic growth medium. (c) What is fungal dimorphism? Discuss taxonomy of fungi. 	ment of	bacterial counts	s.06 05 05
Q.7	(a) Explain the following terms: 1. Psychrophiles 2.Lithotrophs 3.MIC 4.iMViC 5.Virion 6.Mie OR	croaerop	hiles	06
	(a) Describe preservatives for pharmaceutical products. OR			06
	(a) Write a note: Bacterial Flagella.			06
