Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY R Ph SEMESTER V EXAMINATION - SUMMER 2022

	D.I II. SENIESTER - V EXAMINATION - SUMMER-2022			
Subject Code:BP504TP Subject Name: Pharmaceutical Microbiology Time: 02:30PM TO 05:30PM		Code:BP504TP Date: 06/06/2022	2	
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Instru	ctions	:		
2.	Mak	empt any five questions. Ke suitable assumptions wherever necessary. The right indicate full marks.		
Q.1	(a) (b) (c)	Give a brief account on IMViC test. Classify bacteria with respect to oxygen requirement, temperature, flagellar arrangement by stating suitable examples. Write short notes on Bacterial Growth curve.	06 05 05	
Q.2	(a) (b) (c)	Define; Sterilization, Disinfection, D value, Z value, Inactivation factor, Antiseptic Give a brief account on Horizontal autoclave with a neat diagram. Write short notes on Biological indicators.	06 05 05	
Q.3	(a) (b) (c)	Explain Phenol coefficient tests. Write short notes on Test for sterility. How will you sterilize thermolabile materials? Explain the methods.	06 05 05	
0.4	(a)	Give a detailed account on Laminar Flow equiment.	06	

Q.5 Name the factors affecting Disinfection action and explain. 06 (a) 05

Write short notes on Scanning Electron Microscope.

State the procedure for carrying out Microbiological assay of Antibiotics.

(b)

(c)

Q.7

(b) Explain the possible microbial contamination in cosmetics and their limit test. State various methods of carrying out animal cell culture and explain. (c) 05

Q. 6 (a) How will you isolate and preserve the pure culture? 06 **(b)** Draw a neat schematic diagram of sporulation cycle of bacteria. 05

Classify the viruses and its method of replication. (c) Give a brief account on application of cell cultures in Pharmaceuticals. (a)

Write short notes on microbiological assay of Vitamin B1. 05 **(b)** Explain Ethylene Oxide sterilization. 05 (c)

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