Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subj	ect C	Code: BP505TT Date: 13/01/2	2021
Time Instru 1. 2. 3.	: 10: ctions Atte Q.7 Mak	empt any THREE questions from Q-1 to Q-6. I is compulsory to attempt. ke suitable assumptions wherever necessary.	s: 54
4. Q.1	(a) (b)	Write a short note on PCR. Give brief note on production of hepatitis B vaccines.	06 05 05
Q.2	(c) (a) (b) (c)	Write a note on production of Enzyme Amylase. Explain Structure and Function of MHC. Give working and applications of biosensors. What are antibodies? Write a detail note on Immunoglobulins.	06 05 05
Q.3	(a) (b) (c)	Give the flow sheet of Vitamin B12 production, isolation and recovery by fermentation. Write a brief note on PBR 322 vector. Explain general method of the preparation of bacterial vaccines.	06 05 05
Q.4	(a) (b) (c)	Write a short note on Hypersensitivity reactions. Define enzyme immobilization and explain different techniques adopted. Detail discussion on Recombinant DNA technology.	06 05 05
Q.5	(a) (b) (c)	Discuss Microbial genetic method of conjugation. Give the difference between humoral immunity vs cellular immunity. Give the brief application of genetic engineering in medicine.	06 05 05
Q. 6	(a) (b) (c)	Design Fermenter and explain its various controls. Give the list of different mutagenic agents. How mutants are identify. Write a note on Hybridoma technology.	06 05 05
Q.7	(a)	Give the flow sheet of Griseofulvin production, isolation and recovery by fermentation.	06
	(a)	OR Explain Principle and Procedure of Western blotting.	06
	(a)	OR Write a note on whole human blood and its storage.	06
