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GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. – SEMESTER 6 • EXAMINATION – SUMMER-2018

Subject Code:260002

Date:03/05/2018 Subject Name: Pharmaceutical Microbiology & Biotechnology II **Total Marks: 80**

Instructions:

1. Attempt any five questions.

Time: 10:30am to 01:30pm

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Differentiate i) Active and Passive immunity ii) Exo and Endotoxin.	06
	(b)	Write short notes on Diphtheria Toxoidal preparation.	05
	(c)	Define: Immunity, Vaccine, Sera, Attenuation, Virulence	05
Q.2	(a)	With a neat flow chart explain the process of Penicillin fermentation.	06
	(b)	Write short notes on various carbohydrate and nitrogen sources for fermentation process.	05
	(c)	Give a brief account on primary and secondary screening.	05
Q.3	(a)	Enumerate the methods of recombinant DNA technology.	06
c	(b)	Write the method of preparation of Activase using r-DNA technology.	05
	(c)	Brief the historical development in the field of biotechnology.	05
Q.4	(a)	Explain various techniques of Enzyme immobilization.	06
-	(b)	Discuss types of mutations.	05
	(c)	How mutants are isolated?	05
Q.5	(a)	Discuss the steps involved in Monoclonal antibody production.	06
	(b)	Write short notes on DNA replication.	05
	(c)	Mention the applications of Monoclonal antibodies.	05
Q. 6	(a)	How Viral Vaccines are prepared?	06
	(b)	Classify immunity with suitable examples.	05
	(c)	Write short notes on diagnostic preparations.	05
Q.7	(a)	Draw a neat labeled diagram of fermentor and functions of the different parts in detail.	06
	(b)	Write short notes on vitamin B_2 fermentative production.	05
	(c)	Explain antigen antibody reactions.	05
