C.U.SHAH UNIVERSITY **Summer Examination-2022**

Subject Name: Pharmaceutical Biotechnology-Theory

Subject Co	le: BP605T	Branch: B.Pharm	
Semester: 6	Date: 07/05/2022	Time: 02:30 To 05:30	Marks: 75
 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 			
Q-1	Briefly explain the following:		(20)
b) c) d) e) f) g)	Mutation Dextran Immunity		
Attempt the following questions:			
Q-2 A	Attempt any two of following : (2*1 Define enzyme immobilization – write immobilization		(20) 10
B C	Design Fermenter and explain its varie Explain role of Cloning Vectors, Rest DNA ligases enzymes in genetic engin	riction endonucleases enzymes	10 and 10
Q-3 A	Attempt any Seven of following : (7 Define Biotechnology and Write detai Biotechnology in Pharmaceutical field	l note on application of	(35) 5
В	Discuss General method of the prepar		5
C D E	toxoids. Write a note on Hypersensitivity react Write a note on ELISA. Differentiate Humoral and Cellular in		5 5 5
F	immunity What are antibodies? Write a detail no	ote on Immunoglobulins	5 Page 1 of 2



- Detail discussion on Recombinant DNA technology G
- Write a note on Polymerase Chain Reactions (PCR). Write on blood components and their preparation Н
- Ι

5 5 5