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Seat No.: ____ Enrolment No. ____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph SEMESTER-5 • EXAMINATION – SUMMER -2020			
Subject Code: BP505TT Date: 02-11-20 Subject Name: Pharmaceutical Biotechnology			
Time Instru 1. 2.	e: 2:3 ections Atte Mal	30 PM TO 5:30 PM Total Marks: 80	
Q.1	(a) (b) (c)	Define Biosensors. Give Working and Applications of Biosensors in field of Pharmacy. Write a note on Protein Engineering. Give applications of Pharmaceutical Biotechnology.	06 05 05
Q.2	(a) (b) (c)	Write a note on Enzyme Immobilization and its applications. Write a note on Polymerase Chain Reactions (PCR). Define Recombinant DNA Technology and give its applications.	06 05 05
Q.3	(a) (b) (c)	Write a note on Humulin. Write a note on Production of Hepatitis B vaccine. Explain role of Cloning Vectors, Restriction endonucleases enzymes and DNA ligases enzymes in genetic engineering.	06 05 05
Q.4	(a) (b) (c)	Define Immunity. Draw neat and clean structure of Immunoglobulins. Write a note on Hypersensitivity Reactions. Give structure and functions of Major Histocompatibility Complex (MHC).	06 05 05
Q.5	(a) (b) (c)	Write a note on Monoclonal antibody Production and its applications. Enlist Blood Products. Write a note on collections, Processing and storage of Whole Human Blood. Give Ideal Properties of Plasma Substituent. Write a note on Dextran.	06 05 05
Q. 6	(a) (b) (c)	Define Mutation. Give types of Mutation. Write a note on Griffith Theory of Transformation. Write a note on Immuno blotting Techniques.	06 05 05
Q.7	(a)	Draw neat and Clean diagram of Ideal Fermenter. Explain various controls of	06

Explain Production of Penicillins with flow chart.

Explain Production of Vitamin B 12 with flow chart.