Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-III • EXAMINATION - WINTER -2021

Subject Code: BP303TP Subject Name: BIOCHEMISTRY Time: 10:30AM to 01:30PM		Name: BIOCHEMISTRY	
Instru 1. 2.	ctions Atte Mak		
Q.1	(a) (b) (c)	Write down electron transport chain and its mechanism. Write about formation and utilization of ketone bodies. Write down therapeutic and diagnostic applications of enzymes.	06 05 05
Q.2	(a) (b) (c)	Define Carbohydrate. Discuss Classification and biological roles of Carbohydrate. Write down biological significances of steroidal hormones. Write down biological significances of ATP and cAMP.	06 05 05
Q.3	(a) (b) (c)	Write a note on HMP shunt and its significances. Write down biosynthesis and Catabolism of Purine nucleotide. Write about enzyme inhibitors with suitable examples.	06 05 05
Q.4	(a) (b) (c)	Write about concept of free energy. Discuss endergonic and exergonic reaction. Define Lipids. Write down biological importance of lipids. Explain structure of DNA and RNA.	06 05 05
Q.5	(a) (b) (c)	Discuss synthesis and significances of Dopamine, Noradrenalin and Adrenalin. Write about β -Oxidation of saturated fatty acid. Write down various steps in protein synthesis.	06 05 05
Q. 6	(a) (b) (c)	Define Enzymes. Write down properties and IUB classifications of enzymes. Explain about Hyperuricemia and Gout diseases. Define gluconeogenesis. Discuss its pathway and significance	06 05 05
Q.7	(a) (b) (c)	Write about various disorders of lipid metabolisms. Write a note on catabolism of heme. Discuss strucutre and biochemical functions of Co-enzymes.	06 05 05
