Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

04/05/2018
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Subject Name: Pharmaceutical Chemistry-III (Biochemistry - I)

Time: 02:30 PM TO 05:30 PM Total Marks: 80

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1.	Attempt any five questions.
2.	Make suitable assumptions wherever necessary.
3.	Figures to the right indicate full marks.

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Q.1	(a) (b) (c)	How is galactose metabolized in our body?		
Q.2	(a) (b) (c)	What are carbohydrates? Write a note on polysaccharides.		
Q.3	(a) (b) (c)	Explain factors affecting enzyme activity. Classify enzymes with examples. Discuss role of hormones in maintenance of blood glucose level.		
Q.4	(a) (b) (c)			
Q.5	(a) (b) (c)	What are ketone bodies? Discuss its synthesis and overproduction. Discuss cholesterol synthesis in body. Define: (I) Reducing sugar (II) Glycogenesis (III) Fatty acid (IV) Glycolysis (V) Apo enzyme	06 05 05	
Q. 6	(a) (b) (c)	Discuss enzyme inhibition in detail. Discuss biochemical importance of calcium and iron in our body. Write a short note on following: (I) Essential fatty acids (II) Water metabolism.		
Q.7	(a) (b) (c)	Explain importance of vitamins as co-enzyme. Discuss control of lipid metabolism. Write a short note on following: (I) Lipoprotein (II) Isoenzymes	06 05 05	
