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GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER-V - EXAMINATION – WINTER-2017

Subject Code: 250003Date: 07-11-2017Subject Name: Pharmaceutical Chemistry VTime: 10:30 am to 01:30 pmTime: 10:30 am to 01:30 pmTotal Marks: 80Instructions: 1. Attempt any five questions.Total Marks: 80				
1. 2. 3.	Mak	ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b)	Define and classify carbohydrates with example. Write a note on functions of carbohydrates. Describe mechanism of enzyme action.	06 05	
	(b) (c)	Describe synthesis of glucose from non-carbohydrate sources.	05	
Q.2	(a) (b) (c)	Describe enzyme inhibition. Write a note on structure and functions of phospholipids. Describe hexose monophosphate shunt with its significance.	06 05 05	
Q.3	(a) (b) (c)	Write a note on metabolism of Glucose-6-phosphate. Write a note on ATP synthesis and its biological importance. Write a short note on: i) Essential amino acids ii) alpha-Helix	06 05 05	
Q.4	(a) (b) (c)	Describe citric acid cycle with its energetics. Write a note on the importance of serum enzymes in the diagnosis of disease. Write a note on structural configuration of monosaccharides, with special reference to glucose.	06 05 05	
Q.5	(a) (b) (c)	Define and classify lipids with example. Write a note on functions of lipids. Describe role of insulin in maintenance of blood sugar level. Write a note on metabolism of galactose.	06 05 05	
Q. 6	(a) (b) (c)	Write a note on properties of proteins. Describe defects in fructose metabolism. Write a note on metabolism of glycogen.	06 05 05	
Q.7	(a) (b) (c)	Write a short note on: i) Inversion of Sucroseii) DeoxysugarsWrite a note on role of metals in enzyme action.Discuss transport process across the cell membrane.	06 05 05	
