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

Subject Code: 250003 Date: 07-11-2017

Subject Name: Pharmaceutical Chemistry V

Time: 10:30 am to 01:30 pm Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define and classify carbohydrates with example. Write a note on functions of carbohydrates.	06
	(b) (c)	Describe mechanism of enzyme action. Describe synthesis of glucose from non-carbohydrate sources.	05 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.	
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.	
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 Sucrose ii) Deoxysugars Write a note on role of metals in enzyme action. Discuss transport process across the cell membrane.	06 05 05
