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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 3 EXAMINATION - WINTER -2019

Subject Code: 2230003	Date: 14-11-2019

Subject Name: Pharmaceutical Chemistry-III (Biochemistry – I)

Time: 10:30AM TO 01:30PM 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)(b)(c)	Enumerate various cell organelles and discuss about mitochondria. Write a note on polysaccharide. Write principle of (a) Molisch 's test (b) Osazone Test.	0 0
Q.2	(a) (b) (c)	Write a note on Embden –Meyerhof pathway and write salient features of it. Discuss TCA cycle. How many molecule of ATP are produce in the cycle? Write a note on role of hormones in maintenance of blood sugar level.	0
Q.3	(a) (b) (c)	Give an account of pentose phosphate pathway and mention its importance. Write a note on glycogenolysis. Define gluconeogenesis. Discuss cori's cycle.	0
Q.4	(a) (b) (c)	Define phospholipids. Classify them and write the functions of phospholipids. Write a note on utilization of ketone bodies. Write a note on lipid storage diseases.	0
Q.5	(a) (b) (c)	Write a note on triglycerides Write note on fattyacid oxidation and explain β -oxidation on detail. What are fatty acids? Explain the various parameters measured to check the purity of fats and oils.	0
Q. 6	(a) (b) (c)	Write a note on enzyme kinetics Write a note on enzyme inhibition. Classify enzyme with examples.	
Q.7	(a) (b) (c)	What is bioenergetics? Discuss their biochemical importance. Short note on water and mineral metabolism. Explain metals as co-enzyme and their Significance.	0 0