

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – V • EXAMINATION – SUMMER 2013

Subject Code: 250003

Date: 12-06-2013

Subject Name: Pharmaceutical chemistry-V (Bio-chemistry)

Time: 02.30 pm - 05.30 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) What are carbohydrates? Describe important properties of carbohydrate.	06
	(b) Describe the identification test for carbohydrate.	05
	(c) Write note on mucopolysaccharide.	05
Q.2	(a) What is the primary structure of protein?	06
	(b) Describe electron transport chain.	05
	(c) Give an account on mechanism of enzyme action.	05
Q.3	(a) What are the difference between inorganic catalyst and enzyme? Discuss the factors which influence the enzyme action.	06
	(b) Explain glycolysis with the help of flow chart.	05
	(c) Write note on enzyme inhibition.	05
Q.4	(a) Discuss citric acid cycle. How many molecule of ATP are produce in the cycle?	06
	(b) Explain vitamins as a co-enzyme and their significance.	05
	(c) Describe the use of enzyme.	05
Q.5	(a) Give an account of hexose monophosphate pathway and mention its importance.	06
	(b) What are the properties of fats and wail?	05
	(c) Discuss in detail the regulation of enzyme activity.	05
Q. 6	(a) What is wernicke-korsakoff syndrome? Explain uronic acid pathway in detail.	06
	(b) Give an account of different chemical bonds involve in protein structure.	05
	(c) Describe some disorder of carbohydrate metabolism.	05
Q.7	(a) Describe α helical structure of protein.	06
	(b) What are lipids? How are they classified?	05
	(c) Give an account of galactose metabolism in the body.	05
