Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

D. Pharm. - SEMESTER - I • EXAMINATION - WINTER • 2014

Subj	ect	Code: 410004 Date: 31-12-2014	
_	e: 1( uctio	Name: Biochemistry and Clinical Pathology 0:30 am - 01:30 pm Total Marks: 80 ons: Attempt any five questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	What are amino acids? Classify them with suitable examples. What is Glycolysis? Describe various reactions of glycolysis process. Write notes on digestion, absorption and transport of lipids to liver.	06 05 05
Q.2	(a) (b) (c)	What are Vitamins? Write structure formula, source, biochemical role and deficiency symptoms of Vitamin H and K. Write a note on enzyme specificity. Explain in detail about "Dehydration."	06 05 05
Q.3	(a) (b) (c)	Define Protein. Classify them with examples. Write a note on enzyme inhibition What is the importance of blood platelets in blood clotting process? Outline the role of erythrocytes in the human body	06 05 05
Q.4	(a) (b) (c)	Discuss chemical properties of monosaccharide. Write role of calcium and phosphorus in human body. Discuss step involved in biosynthesis of cholesterol.	06 05 05
Q.5	(a) (b) (c)	What is $\beta$ – oxidation? Write steps involved in $\beta$ – oxidation. Outline the steps involved in conversion of Pyruvic acid to Acetyl CoA. Discuss physical and chemical properties of amino acids.	06 05 05
Q. 6	(a) (b) (c)	Discuss factors affecting enzyme activity. Explain in detail about kreb's cycle. Write importance of coenzyme in enzyme activity.	06 05 05
Q.7	(a) (b)	What is difference between T and B Lymphocytes? Give the consequences of their abnormalities in human body.  Give biochemical steps involved as a result of removal of ammonia from blood and formation of urea in liver.	06
	<b>(c)</b>	Discuss disorders of lipid metabolism.	05

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