Seat No.: \_\_\_\_

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Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY** DIPLOMA PHARMACY YEAR- 1 • EXAMINATION – WINTER - 2023

-		Code: 410004 Date:14/12/202 Name: Biochemistry & Clinical Pathology	Date:14/12/2023	
• •			Marks: 80	
1.	Atte Mal	s: empt any five questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.		
Q.1	(a)	Define and classify carbohydrates with examples. Describe osazone test in detail.	06	
	(b) (c)	Give Glycolysis pathway. Write a note on mutarotation and inversion of sucrose.	05 05	
Q.2	(a) (b)	What are proteins? Classify them with examples. Add a note on primary structure of proteins. Write a note on disorders associated with protein meabolism.	06 05	
	(c)	Write a note on Ninhydrin test and Biuret test.	05	
Q.3	(a) (b) (c)	Define and classify lipids with examples. Add a note on functions of lipids. Write a note on triacyl glycerols. Write a note on β-oxidation of fatty acids.	06 05 05	
Q.4	(a) (b) (c)	Write a detailed note on urea cycle. Give the role of iron and calcium in body. Discuss in detail about enzyme inhibition and enzyme specificity.	06 05 05	
Q.5	(a)	Write source, biochemical functions and deficiency diseases of vitamin B2 and D3.	06	
	(b) (c)	Write a note on diagnostic importance of enzymes. Write normal and abnormal constituents of urine. Also give their clinical significance.	05 05	
Q. 6	(a) (b) (c)	Discuss pathology of Red blood cells and types of anemia. Explain Citric acid cycle. Discuss the tests for identification of lipids.	06 05 05	
Q.7	(a) (b) (c)	What are enzymes. Discuss factors affecting enzyme activity. What is biochemistry? Discuss its importance in pharmacy. Discuss pentose phosphate pathway.	06 05 05	
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