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GUJARAT TECHNOLOGICAL UNIVERSITY

D.Pharm Year 2 EXAMINATION – WINTER-2023

Sul	oject (Code: DP203TP Date: 13/12/2023	
Sul	oject l	Name: Biochemistry & Clinical Pathology	
Tin	ne: 10	:30am to 01:30pm Total Marks: 80	
	ruction		
	_	estion -1 is compulsory to attempt.	
		empt any 04 questions from Question 2 to 7. ke suitable assumptions wherever necessary.	
		ures to the right indicate full marks.	
Q.1		wer the following questions. (Attempt Any 16) (1 mark each)	16
	1)	Define: Reducing sugar. Give its example.	
	2)	What is glycosuria?	
	3)	Give structure of cholesterol.	
	4)	Give synonym of vitamin A and B_1 .	
	5)	Name the enzymes required for iron functioning.	
	6)	Explain the term: Sickle cell anaemia.	
	7)	What are enzymes?	
	8)	Define: Glycogenolysis.	
	9)	What do you mean by metabolism?	
	10)	Define: Hyperglycemia.	
	11)	Name two forms of Vitamin K.	
	12)	What is alkeptonuria?	
	13)	What are the chemical constituents of seliwanoff's reagent?	
	14)	What do you mean by essential amino acids?	
	15)	Define: biotechnology.	
	16)	What is dehydration?	
	17)	What do you mean by oxidative phosphorylation?	
	18)	Explain biuret test.	
	19)	What is the normal number of WBCs in blood?	
	20)	What is rickets?	
Q.2	(a)	Give synonym, different forms, physiological functions and deficiency diseases	06
~·-	(41)	of vitamin D.	00
	(b)	What are proteins? Describe the structure of protein.	05
	(c)	Describe Electron Transfer Chain (ETC).	05
Q.3	(a)	Enlist different liver function tests. Write down clinical significance of each test.	06
	(b)	Enlist different types of RNAs. Give structure and functions of each.	05
	(c)	Schematically describe citric acid cycle.	05
Q.4	(a)	Discuss β -oxidation of fatty acids.	06
•	(b)	Give mechanism of action of enzymes.	05
	(c)	Write a note on ORS therapy and ORS formulation?	05

Q.5	(a)	Classify lipids with examples. Give biological importance of lipids.	06
	(b)	Write a note on scope and importance of biotechnology.	05
	(c)	Discuss reactions involved in urea cycle.	05
Q. 6	(a)	Draw the cell structure & write the functions of each organelle.	06
	(b)	Give physiological functions of different minerals.	05
	(c)	Discuss different types of leucocytes.	05
Q.7	(a)	What is glycolysis? Explain different chemical reactions and energetics of glycolysis.	06
	(b)	What are the physiological functions of water?	05
	(c)	Give biological importance of carbohydrates.	05

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