

2	(a)	(2) Describe the Properties of Biomolecules. Objective type Questions	
		(1) Give any one name of tests used for detection of Reducing sugars.	
		(2) Hyaluronic acid is composed of alternative units of and	
		(3) Which glycoproteins has a function of defence against infection?	
		(4) Heparin is an example of Anticoagulant. TRUE / FALSE.	
	(b)	Answer in brief: (Any 1 out of 2)	2
		(1) Write the functions of carbohydrates.	
		(2) Define Epimers with example.	
	(c)	Answer in Detail (Any 1 out of 2)	3
		(1) Explain oxidation and reduction reactions of sugars.	
		(2) Explain Sterioisomerism and optical isomerism.	
	(d)	Write a note on (Any 1 out of 2)	
		(1) Explain Homopolysaccharides.	
		(2) Explain Disaccharides.	
3	(a)	Objective type Questions	4
		(1) Give the name of sulfur containing aminoacids.	
		(2) Each turn of $\alpha$ -helix contain number of amino acids.	
		(3) All amino acids reacts with ninhydrin to form purple colour except	
		(4) The $\alpha$ - Helical structure of protein was proposed by	

	(b)	Ans	swer in brief (Any 1 out of 2)	2	
		(1)	Draw the structure of acidic amino acid.		
		(2)	How peptide bond formation takes place?		
	(c)	Ans	swer in Detail (Any 1 out of 2)	3	
		(1)	Explain Physical properties of protein.		
		(2)	Explain determination of amino acids sequence by Edman's reagent.		
	(d)	Wri	te a note on (Any 1 out of 2)	5	
		(1)	Explain structural classification of amino acid.		
		(2)	Describe the secondary structure of protein.		
4	(a)	Objective type Questions:			
		(1)	Who discovered DNA?		
		(2)	A nucleotide is a basic structural unit and building block of DNA. TRUE/FALSE.		
		(3)	Meselson and stahl gave the nature of DNA.		
		(4)	is an enzymatic method for DNA sequencing.		
	(b)	Ans	swer in brief (Any 1 out of 2)	2	
		(1)	Give full form of DNA and RNA.		
		(2)	Define: Nucleotide and Nucleosides.		
	(c)	Ans	Answer in Detail (Any 1 out of 2)		
		(1)	Explain Chargaffs rule.		
		(2)	Draw the labeled structure of DNA.		
	(d)	Wri	te a note on (Any 1 out of 2)	5	
		(1)	Explain the Types of RNA and their functions.		
		(2)	Explain Maxum Gilbert method of DNA sequencing.		
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5	(a)	Objective type Questions	
		(1) Vitamine A, D, E and K are fat soluble vitamins. TRUE/FALSE.	
		(2) The term lipid is sometime used as a synonym for	
		(3) Rickets is caused due to deficiency of vitamin	
		(4) vitamin play an important role in keeping our bodies running like well oiled machines.	
	(b)	Answer in brief: (Any 1 out of 2)	2
		(1) Write the functions of lipid.	
		(2) Define Essential fatty acids with examples.	
	(c)	Answer in Detail (Any 1 out of 2)	3
		(1) Explain properties of Triacylglycerols.	
		(2) Explain Steroids.	
	(d)	Write a note on: (Any 1 out of 2)	5
		(1) Explain classifications of lipids.	
		(2) Describe the diseases caused due to vitamin deficiency.	