Model Question Paper Biomolecules - Part I

12th Standard

	Chemistry	Reg.No.:	П	\Box	
ı	.Answer all the questions.		 		
ı	I.Use blue pen only.				
Tin	ne: 01:30:00 Hrs		Tot	al Mar	rks : 65
	Part-A			4	x 1 = 4
1)	Which is a mono saccharide among the following:				
	(a) Sucrose (b) Cellulose (c) Maltose (d) Glucose				
2)	The amino acid without chiral carbon is				
	(a) Glysine (b) Alanine (c) proline (d) Thyrosine				
3)	The building block of proteins are				
	(a) α - hydroxy acids (b) α -amino acids (c) β - hydroxy acids (d) β - amino acids				
4)	which is not true of amino acid?				
	(a) amino acid forms Zwitter ion (b) has isoelectric point (c) dual behaviours (d) amino acid is insoluble in NaOH solution				
	Part-B			7 x	3 = 21
5)	What are carbohydrates? Give their sources				
6)	How are carbohydrates broadly classified?				
7)	What are monosaccharides? Give an example				
8)	What are oligosaccharides? Give an example				
9)	What are non-sugars or poly saccharides? Give an example				
10)	What happens when sucrose is hydrolyzed?				
11)	What happens when raffinose is hydrolysed?				
	Part-C			4 x	c 5 = 20
12)	Outline the classification of carbohydrates giving an example for each.				
13)	How can a reducing sugar differ from non-reducing sugar				
14)	Distinguish glucose from fructose				
15)	Show the formation of a peptide bond with an equation.				
	What are non-sugars or poly saccharides? Give an example What happens when sucrose is hydrolyzed? What happens when raffinose is hydrolysed? Part-C Outline the classification of carbohydrates giving an example for each. How can a reducing sugar differ from non-reducing sugar Distinguish glucose from fructose Show the formation of a peptide bond with an equation. Part-D a) Mention the biological importance of lipids. b) Write about the preparation and properties of glucose			2×	X10=20
16)	a) Mention the biological importance of lipids.				
	b) Write about the preparation and properties of glucose				

17) a) How is the structure of fructose determined?

b) Write short notes on the manufacture of Soap and Wax?