

Model Question Paper**Biomolecules - Part III**

12th Standard

ChemistryReg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 70

5 x 1 = 5

Part-A

- 1) A mixer of D(+) glucose and D(-) fructose is known as
(a) cane sugar (b) sweetless sugar (c) invert sugar (d) starch sugar
- 2) Fructose on reduction with HI/P gives
(a) n-hexane (b) isohexane (c) 1^o alcohol (d) no reaction
- 3) Glucose and fructose when dissolved in water produce
(a) acidic solution (b) basic solution (c) neutral solution (d) starch
- 4) With acetic anhydride in the presence of pyridine fructose forms
(a) mono acetate (b) triacetate (c) diacetate (d) penta acetate
- 5) A mono saccharide reacts with hydroxyl amine to form a monooxime, adds only one mole of HCN to form a cyano hydrin. This indicates the presence of _____ in monosaccharide
(a) hydroxyl group (b) nitro group (c) carboxylic group (d) carbonyl group

Part-B

5 x 3 = 15

- 6) Give any two functions of lipids in biosystem
- 7) Give the functions of wax
- 8) Give the functions of phospholipids with special reference to cephalins.
- 9) Give the functions of galactolipids
- 10) What is the action of HI on glucose?

Part-C

6 x 5 = 30

- 11) Distinguish glucose and fructose.
- 12) Write notes on sucrose.
- 13) Write notes on amino acids?
- 14) What is peptide bond? Illustrate the formation of a peptide bond in glycyl alanine.
- 15) Write notes on lipids.
- 16) Outline the classification of carbohydrates giving an example for each.

Part-D

2X10=20

- 17) a) Prove the structure of glucose.
b) Discuss the structure of fructose in detail.
- 18) a) Describe the structure of glucose and fructose
b) What are carbohydrates? How are they classified?
