

Model Question Paper

Biomolecules - Part II

12th Standard

Chemistry

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 65

5 x 1 = 5

Part-A

- 1) Glucose forms _____ with acetic anhydride and sodium acetate
(a) di acetate (b) tetra acetate (c) penta acetate (d) hexa acetate
- 2) The amino acid without chiral carbon is
(a) Glycine (b) Alanine (c) proline (d) Tyrosine
- 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
- 5) Two amino acids say A,B- react to give
(a) two dipeptides (b) three dipeptides (c) four dipeptides (d) only one

Part-B

- 6) what are α and β helical arrangements?
- 7) What are lipids? Give their three types
- 8) Give the two main groups of compound lipids
- 9) Give any two functions of lipids in biosystem
- 10) Give the functions of wax

5 x 3 = 15

Part-C

- 11) How is structure of fructose derived?
- 12) Write a note on disaccharides
- 13) Explain polysaccharides(starch and cellulose)
- 14) Give a brief note on proteins
- 15) Write a note on amino acids and Zwitter ion

5 x 5 = 25

Part-C

- 16) a) What is a peptide bond? How is it obtained? Explain the formation of dipeptide with examples
b) Write a note on the structure of proteins
- 17) a) What are lipids? How are they classified? Explain.
b) Explain the functions of lipids in biosystem

2X10=20
