

(041210302)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017

FIRST SEMESTER

Branch - Zoology

Paper III — CHEMISTRY OF BIOMOLECULES

(Old Syllabus)

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any FIVE of the following.

(Marks : 5×4 marks = 20 marks)

1. Chemical bonds
2. Phospholipids
3. Isomerism
4. Essential amino acids
5. Protein folding
6. Glycoproteins
7. Purine nucleotides
8. Sn RNA.

PART - B

Answer ONE question from each Unit.

(Marks : 4×12.5 marks = 50 marks)

UNIT - I

9. Write an essay on classification and properties of carbohydrates with suitable examples.

Or

10. Define Thermodynamics. Describe first and second law of thermodynamics with examples.

UNIT - II

11. What is Acid-base titration of amino acids? Explain.

Or

12. Describe the solid-phase technique for peptide synthesis.

[P.T.O]

UNIT - III

13. Describe in detail the structure of proteins with suitable examples.

Or

14. Describe RamaChandran Plot.

UNIT - IV

15. Describe different forms of DNA.

Or

16. Describe the properties and functions of nucleic acids.
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