15021

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2018.

FIRST SEMESTER

Biochemistry

Paper I — CHEMISTRY OF BIOMOLECULES

Time : Three hours | Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each questions carries 3 marks.

Each answer should not exceed 1 page.

1. Oligosacharides
2. Formation of glycosidic bond
3. Unusual aminoacids
4. Denaturatial of proteins
5. Phospholipids
6. Functions of chlorophylls
7. Renaturation of DNA
8. Purine bons

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each questions carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain the various chemical reactions of monosaccharides.

Or

10. Describe the chemistry and functions of heteropoly saccharides.

11. How protein structure is organized at various levels?

Or

12. What are the various steps involved in the purification of proteins.

13. Describe structure and classification of lipids.

Or

14. Explain the structure and functions of heme.

15. Discuss the structure of DNA using Watson and Crick model.

Or

16. Write the structure of various types of RNA with emphasis particularly on t-RNA.
