M.Sc. DEGREE EXAMINATION, APRIL 2018 SECOND SEMESTER

Branch - Zoology

CHEMISTRY OF BIOMOLECULES

(New Syllabus for batch 2017)

Time: 3 Hours

Max. Marks: 70

Answer any FIVE of the following:

 $(5 \times 4 = 20)$

- . Leukotrienes.
- 2. pKa.
- 3. Essential amino acids.
- 1. Peptide bond.
- 5. Ramachandran plot.
- 6. Protein stability.
- 7. Cot curves.

9.

- 8. Chargoft's rule.
- II. Answer FOUR of the following:

 $(4 \times 12.5 = 50)$

(a) Write an essay on the classification, properties and functions carbohydates.

Or

- (b) Describe the structure and functions of prostagladians and thromboxanes.
- 10. (a) Discuss the structure, types and properties of peptides and also explain the peptide synthesis by solid-phase technique.

Or

(b) Write about the biosythesis of non-essential amino acids.

11. (a) Discuss the structure of proteins. Explain the importance of proteins.

Or

- (b) Describe the classification, isolation and purification of proteins.
- 12. (a) Write notes:
 - (i) Chemical synthesis of DNA.
 - (ii) Watson and crick double helix structure.

Or

(b) Describe the types, properties and biological functions of Nucleic acids.