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## FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, NOVEMBER 2023

(CBCSS)

Zoology

## ZOL 1C 01—BIOCHEMISTRY AND CYTOGENETICS

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

- I. Answer any four of the following. Short Answer Type Questions. Weightage 2:
  - 1 Define monosaccharides and draw the structure of glucose.
  - Why are amino acids called as amphoteric in nature?
  - Define Enthalpy.
  - Define Decarboxylation.
  - 5 Draw the structure of fluid mosaic model of plasma membrane.
  - Define Necrosis.
  - Define Integrins.

 $(4 \times 2 = 8 \text{ weightage})$ 

- II. Answer any four of the following. Short Essay Type Questions. Weightage: 3:
  - 8 Give a brief account on the characters and forms of peptide bond.
  - Explain briefly the functions of Prostaglandins.
  - 10 Give a note on mechanism of enzyme action.
  - Give a brief account on the biosynthesis of tryptophan. 11
  - Give a short notes on components present in the fluid mosaic model of plasma membrane. 12
  - Give brief account on structure and functions of peroxisome. 13
  - Give a note on steps involved in apoptosis.

 $(4 \times 3 = 12 \text{ weightage})$ 

Turn over

- III. Answer any two of the following. Long Essay Type Questions. Weightage 5
  - 15 Briefly explain the biological roles of lipids.
  - 16 Explain the steps involved in krebs cycle with outline.
  - 17 Describe in detail about the structure and functions of endoplasmic reticulu
  - 18 Explain in detail about the mechanism of signal transduction via GPCR and

 $(2 \times 5 = 1)$