

D 72994

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
DECEMBER 2019**

(CBCSS)

Zoology

ZOL 1C 01—BIOCHEMISTRY AND CYTOGENETICS

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* questions. Each carries 2 weightage :

- 1 What is Euchromatin ?
- 2 Briefly illustrate the chemical nature of chitin.
- 3 What is mutarotation ?
- 4 What are Phospholipids ?
- 5 Write the functional significance of cAMP.
- 6 Distinguish between Transamination and Deamination.
- 7 What are Desmosomes ?

(4 × 2 = 8 weightage)

II. Answer any *four* questions. Each carries 3 weightage :

- 8 Briefly describe the secondary structure of protein.
- 9 Write the chemical nature and functions of prostaglandins.
- 10 Describe the process of oxidative phosphorylation.
- 11 Describe the HMP pathway.
- 12 Illustrate the structural components of golgi complex and mention its functions.
- 13 Describe the various types of aneuploidy.
- 14 Write a note on the various events in apoptosis.

(4 × 3 = 12 weightage)

Turn over

III. Answer any *two* questions. Each question carries 5 weightage :

- 15 Describe the structure and biological role of heteropolysaccharides.
- 16 Write an essay on structural organization of DNA.
- 17 Describe the various types of enzyme inhibitions.
- 18 Write an essay on the extrachromosomal inheritance.

(2 × 5 = 10 weightage)