



K22P 1606

Reg. No. :

Name :

**I Semester M.Sc. Degree (CBSS – Reg./Sup./Imp.) Examination, October 2022
(2019 Admission Onwards)**

**ZOOLOGY
ZOO1C01 : Cell Biology and Genetics**

Time : 3 Hours

Max. Marks : 60

**PART – A
(Cell Biology)**

I. Answer **any one** of the following :

- 1) Give a detailed account on the organization and architecture of chromatin.
- 2) Explain post translational modification.

(1×12=12)

II. Answer **any one** of the following :

- 3) Explain the mechanisms of active transport with examples.
- 4) Give an account on the intercellular communication.

(1×8=8)

III. Write short notes on **any two** of the following :

- 5) Tight junction.
- 6) G1 check point.
- 7) Necrosis.

(2×5=10)

**PART – B
(Inheritance Science)**

IV. Answer **any one** of the following :

- 8) Give a detailed account on the genetics of cancer.
- 9) Explain transposable elements in bacteria and mention their role in genome evolution.

(1×12=12)

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V. Answer **any one** of the following :

- 10) Write notes on bacterial conjugation.
- 11) Give an account on transduction.

(1×8=8)

VI. Write short notes on **any two** of the following :

- 12) Oncogens.
- 13) Retrotransposons.
- 14) T4 bacteriophage.

(2×5=10)

