



K21P 4214

Reg. No. :

Name :

I Semester M.Sc. Degree (C.B.S.S. – Reg./Supple./Imp.)

Examination, October 2021

(2018 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) Describe cell cycle and its regulation.
- 2) Explain membrane transport.

(1×12=12)

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

- 3) Explain the post translational modification in RER.
- 4) Give an account on the organization of Chromatin.

(1×8=8)

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

- 5) Apoptosis
- 6) Sodium pump
- 7) Nuclear pore.

(2×5=10)

PART – B
(Inheritance Science)IV. Answer **any one** of the following.

- 8) Give a detailed account on transposable elements in prokaryotes and eukaryotes.
- 9) Explain mechanism of Genetic exchange in bacteria.

(1×12=12)

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

- 10) Write a note on retroviruses.
- 11) Explain the genetics of cancer.

(1×8=8)

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

- 12) Rec-A genes
- 13) Transduction
- 14) BRCA gene.

(2×5=10)

