

FACULTY OF SCIENCE
B.Sc. IV-Semester (CBCS) Examination, May / June 2018

Subject : Zoology

Paper - IV : Cell Biology Genetics and Evolution

Time : 3 Hours

Max. Marks: 80

SECTION – A (5 x 4 = 20 Marks)
(Short Answer Type)

Note : Answer any FIVE of the following questions.

- 1 What are Ribosomes?
- 2 Eukaryotic cells
- 3 t - RNA
- 4 Genetic code
- 5 Linkage
- 6 Haemophilia
- 7 Allopatric speciation
- 8 Genetic drift

SECTION – B (4 x 15 = 60 Marks)
(Essay Answer Type)

Note: Answer all questions from the following.

- 9 (a) Write about Endoplasmic reticulum and its functions.
OR
(b) Write about lamp brush and polytene chromosomes.
- 10 (a) Discuss protein synthesis.
OR
(b) Write an account on Electrophoresis.
- 11 (a) Define chromosomal mutation and write about different types of chromosomal mutations.
OR
(b) Explain in detail about Inborn errors of metabolism.
- 12 (a) Explain the theories of Lamarckism and Neatamarkism.
OR
(b) Write an essay on the role of isolation as factor of evolution.