

Code No. 7111 / A / E / R

FACULTY OF SCIENCE
B.Sc. IV-Semester (CBCS) Examination, 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 Write a short note on Lysosomes
- 2 Lamp brush chromosomes
- 3 Functions of RNA
- 4 Transcription
- 5 Epistasis
- 6 Deletion and Duplication
- 7 Hardy Weinbergs law
- 8 Causes of Extinction

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

Note: Answer all questions from the following.

- 9 (a) Describe the structure of Mitochondria and its importance in cell activity.
OR
(b) Write about Mitotic cell division and its significance.
- 10 (a) Explain the mechanism of DNA replication and add a note on its significance.
OR
(b) Explain gene regulation through Lac operon concept in detail.
- 11 (a) What is Linkage? Write about different types of linkages with suitable examples.
OR
(b) What are gene mutations? Write about Induced and spontaneous mutations.
- 12 (a) Write about Darwinism and Neo Darwinism.
OR
(b) What is speciation ? Describe different methods of speciation.
