

Exam. Code : 103203

Subject Code : 1363

B.A./B.Sc. 3rd Semester

ZOOLOGY (Evolution)

Paper—ZOO-III A

Time Allowed—Three Hours] [Maximum Marks—35

Note :— Section A is compulsory and consists of **seven** sub parts of **1** mark each. Attempt **FOUR** questions from Section B, selecting at least **ONE** from each unit.

SECTION—A

Write a short answer for the following :—

1. Evidences of evolution
2. Mass extinctions
3. Fossils
4. Adaptive radiations
5. Speciation
6. Coacervates
7. Homology

1×7=7

SECTION—B

UNIT—I

1. What is the significance of connecting links, comparative anatomy and embryology in evolution ?
7
2. What are the salient features of Lamarckism ? Give its merits and demerits over modern theory of evolution.
7

UNIT—II

- 3. Discuss various theories of origin of life, which one according to you best describes origin of life ? 7
- 4. Write a note on the mechanisms of macro and mega evolution. Give suitable example for each. 7

UNIT—III

- 5. Describe various types of fossils and their significance as evidences of evolution. 7
- 6. Highlight the factors responsible for extinction of reptiles. 7

UNIT—IV

- 7. Give a detailed account of parental care in fishes. 7
- 8. Write a note on :—
 - (a) Bird migration
 - (b) Poison apparatus of snake.

3½×2=7

SECTION—B

UNIT—I

- 1. What is the significance of connecting links? comparative anatomy and embryology in evolution? 7
- 2. What are the salient features of Lamarckism? Give its merits and demerits over modern theory of evolution. 7