

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

ZOOLSEM-112

M.Sc. (Ist Semester) Examination Dec., 2022

ZOOLOGY

Paper - IV

(Evolution)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 2 × 6 = 12)

Note :- Answer any *six* questions by selecting at least *two* questions from each Unit (Answer limit **200** words). Each question carries **2** marks.

Section-C

(Marks : 6 × 3 = 18)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **6** marks.

Section-A

1. Attempt all questions :

(i) What is acquired characters ?

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(1)

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- (ii) Define Adaptation.
- (iii) Write about Germplasm.
- (iv) What is Ecological Variations ?
- (v) Write about Mutagenic agents.
- (vi) What is Ethological Gasolation ?
- (vii) What is Allopatric speciation ?
- (viii) What is Extinction ?
- (ix) Write about Niches.
- (x) What is genetic drift ?

Section-B

Unit-I

- 2. Write Greek thought of Lamarck.
- 3. Write Hardy Weinberg Law.
- 4. Write note on Mutations.

Unit-II

- 5. Write in brief Chromosomal aberrations.
- 6. Write short note on Introgressive hybridisation.
- 7. Write about Geographical isolation.

Unit-III

- 8. Write in brief mimicry and coloration.
- 9. Write short note on Neo-Darwinism.
- 10. Write the concept of struggle for existence.

Section-C

Unit-I

11. Describe the Lamarckism.
12. Discuss about gene frequency and gene pool.

Unit-II

13. Describe the kinds of Variations.
14. Explain the isolation as factor of evolution.

Unit-III

15. Describe the nature of adaptations.
16. Discuss the modern concept of natural selections.