

**D 140250**

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION****APRIL 2026**

Zoology

ZOL 6B 13 T—ETHOLOGY, EVOLUTION AND ZOO GEOGRAPHY

(2020 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A (Short Answer Type)***All questions can be answered.**Each question carries 2 marks.**(Ceiling 20 marks)*

1. What is Cambrian explosion ?
2. What are Living fossils ?
3. What are Homologous organs ? Give an example.
4. Define mutation theory.
5. What is meant by pre-adaptation ?
6. Define cosmopolitan distribution. Give an example.
7. What is Wallace line ?
8. What are Oceanic islands ? Give an example.
9. Write any two major features of *H.sapiens neandertholensis*.
10. Define Genetic drift.
11. What is Habituation ?
12. Define Circadian rhythm.

**Turn over**

**Section B (Paragraph/Problem Type)**

*All questions can be answered.*

*Each question carries 5 marks.*

*(Ceiling 30 marks)*

13. What are Fossils ? Add an account of dating of fossils.
14. Describe the embryological evidences of evolution.
15. Explain the factors that upset Hardy-Weinberg Equilibrium.
16. Describe the faunal characteristics Oriental realm.
17. Give an account of classification and significance of pheromones.
18. Briefly describe the Prezygotic isolating mechanisms.
19. Explain the major postulates of Lamarckism.

**Section C (Essay Type)**

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

*The question carries 10 marks.*

20. Discuss the experimental evidence supporting the biochemical origin of life, focusing on the Urey-Miller experiment.
21. Write an essay on different types and methods of speciation.

(1 × 10 = 10 marks)