

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2026**(Regular/Improvement/Supplementary)****ZOOLOGY****GZOL6B13T: ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY****Time: 2 Hours****Maximum Marks: 60****SECTION A: Answer the following questions. Each carries two marks.
(Ceiling 20 marks)**

1. Distinguish between diurnal and nocturnal animals. Give examples.
2. What is Isolated distribution? Cite two examples.
3. Write a note on Instincts.
4. Give an account of Germplasm theory.
5. Write notes on *Dryopithecus*.
6. What is Conditioned Reflex?
7. Distinguish between Homologous organs and Analogous organs with examples.
8. Evaluate the importance of genetic drift in evolution.
9. List any four characteristic features of Neanderthal man.
10. Differentiate between subspecies and sibling species.
11. What is meant by punctuated equilibrium?
12. Comment on Cambrian Explosion.

**SECTION B: Answer the following questions. Each carries five marks.
(Ceiling 30 marks)**

13. Explain the synthetic theory of evolution.
14. What are the causes for adaptive radiation? Evaluate its significance in origin of new species.
15. Discuss the role of hypothalamus in thirst and feeding.
16. Explain the faunal features of oriental region.
17. Discuss Hardy-Weinberg equilibrium. Add a note on factors that upset it.
18. Briefly explain the physical barriers in animal distribution.
19. Describe the physiological and biochemical evidences of organic evolution.

SECTION C: Answer any one question. The question carries ten marks.

20. Discuss social groups in termites.
21. Explain the tools and experimental evidences that support current hypotheses of the history of life on earth.

(1 × 10 = 10 Marks)