

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025

(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. Comment on Deccan plateau.
2. What is Cosmopolitan distribution of animals?
3. Define Weber's line.
4. Comment on Founder effect.
5. What is "hot dilute organic soup" in Oparin Haldane theory?
6. Write notes about Indo-Burma hotspot of biodiversity.
7. What are vestigial organs? Give examples.
8. Comment on economy of territoriality.
9. Give an account on homing instinct.
10. What is pre-adaptation? What is its significance in evolution?
11. Comment on behavioral pattern of social organization.
12. Define sibling species.

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

13. Comment on the fauna and features of major zoogeographic zones of the world.
14. Differentiate between gradual and punctuated equilibrium of evolution.
15. Make a comparison between allopatric and sympatric speciation.
16. Give a brief account on the socio-cultural evolution of man.
17. Describe embryological evidences in favour of organic evolution.
18. Write short essay on aggressive and agnostic behaviour in animals.
19. Explain hibernation and aestivation.

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

20. Give an account on biochemical origin of life.
21. Discuss the major postulates of Lamarckism and criticism against it.

(1 x 10 = 10 Marks)