Reg.No	•••••	 	••
Name:			

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(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. What are living fossils? Give two examples.
- 2. Write note on Neutral theory.
- 3. What is cosmopolitan distribution?
- 4. What do you know about the phenomenon of Orientation in animals.
- 5. What is Wallace line?
- 6. List out the four hotspots in India.
- 7. Name two Continental islands.
- 8. Explain Weismann's germplasm theory.
- 9. What is Genetic Drift?
- 10. Write note on faunal characteristics of Galapagos Islands.
- 11. What are Vestigeal organs? Give two examples.
- 12. What is break up of Gondwana?

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

- 13. Write note on chemical communication and its significance
- 14. What is Hardy-Weinberg principle? Discuss the factors that upset its equilibrium.
- 15. Explain the important postulates of Darwin's theory.
- 16. Give an account on learned behavior.
- 17. Write note on embryological evidences of organic evolution.
- 18. Discuss the social groups in termites and their sociobiological behaviour.
- 19. Write note on the evolutionary trends from the ape-man to Modern man.

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

- 20. Explain the origin of life with appropriate experimental proofs.
- 21. What is Adaptive radiation? Discuss the causes and significance with special reference to Darwin's finches.

 $(1 \times 10 = 10 \text{ Marks})$