

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024
(Regular/Improvement/Supplementary)**

ZOOLOGY

GZOL6B12T: ENVIRONMENT AND CONSERVATION BIOLOGY

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 Marks)

1. What is sedimentary cycle?
2. What are keystone species?
3. What are the reasons for population dispersal?
4. Explain commensalism with suitable example.
5. What is an opportunist species?
6. Mention joint forest management.
7. Mention the method of determining age in animals using annulus rings.
8. Comment on Shannon diversity index.
9. What are gene banks? Explain how they help in conservation of biodiversity.
10. What are the toxic automobile emissions?
11. What are common sources of radioactive wastes?
12. Define sub acute toxicity.

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 Marks)

13. Give an account on Carbon cycle.
14. What is ecological succession? Explain the patterns and processes of succession?
15. Describe the environmental issues associated with cyclone, landslides and debris flow.
Enlist the management strategies.
16. Write down some of the methods of tracking home range and territory of animals.
17. Briefly explain species diversity. Describe the different levels of species diversity.
18. Explain the different strategies of exsitu conservation.
19. Describe the roles of IUCN and WWF on global conservation missions.

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

20. Write an essay on the characteristics, structure and functions of an ecosystem.
21. Discuss in detail about the characteristics of community.

(1 x 10 = 10 Marks)