

D4AZL2301

(2 Pages)

Name.....

Reg.No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025

(Regular/Improvement/Supplementary)

ZOOLOGY

FZOL4E10 - ENVIRONMENTAL BIOLOGY-I: MAN, ENVIRONMENTAL & NATURAL RESOURCES

Time: 3 Hours

Maximum Weightage: 30

Part A: Answer any *four* questions. Each carries *two* weightage

1. Give an account on subsidence inversion
2. What is soil piping? Write notes on its causes and consequences
3. Comment on demographic transition
4. Expand the concept of sustainable development
5. Explain Lindeman's law of energy transfer
6. Write an account on important forest products of plant origin
7. Citing a case study, comment on the environmental impact of the over exploitation of mineral resources in India

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage

8. Explain the structure and composition of atmosphere.
9. Discuss how changes in the earth's movement affect its climate
10. What are population pyramids? Describe different types of population pyramids to analyze population momentum
11. Classify and describe different types of ecosystems
12. Evaluate human impact on ecosystems
13. Survey various surface and ground water resources of Kerala
14. Describe the value of fish as a marine product

(4 × 3 = 12 weightage)

(PTO)

Part C: Answer any *two* questions. Each carries *five* weightage

15. Discuss in detail different categories of clouds. Add notes on cloud formation
16. Explain physical evidences for climatic change
17. Define primary production. Describe factors affecting and measurement of primary production
18. Write an essay on non-conventional energy sources

(2 × 5 = 10 weightage)