

2023
M.Sc.
Fourth Semester
CORE – 11
ZOOLOGY
Course Code: MZOC 4.11
(Ecology & Environmental Biology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Give a detailed account on the factors and effects of light, water, temperature, and humidity on the ecosystem. 14
2. Write the concept of ecology. Explain the different ecological niches and niches diversity. 4+10=14

UNIT-II

3. Give a detailed account on the population interaction in an ecosystem. 14
4. Write notes on the following: 7×2=14
 - (a) Natality
 - (b) Mortality

UNIT-III

5. Explain the mode of ecological succession in aquatic ecosystems. Write a note on the concept of climax. 7+7=14
6. (a) Write an account on the measurement of primary productivity. 7
(b) Write a not on energy flow. 7

UNIT-IV

7. What is global warming? What are the different source of gases which enhanced the greenhouse effect. Explain how Kyoto protocol help to limit and reduce greenhouse gases emission. $2+6+6=14$
8. Write notes on the following: $7 \times 2 = 14$
- (a) Pesticides pollutants and other chemical in agriculture
 - (b) Biodegradation and bioremediation of chemicals

UNIT-V

9. What is wildlife? Discuss on the assessment and conservation of wild animals. $2+12=14$
10. Explain Biodiversity Act related to international convention. What are the anthropogenic activities which impact the environment? $7+7=14$
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