

2023
B.A./B.Sc.
First Semester
CORE – 2
ZOOLOGY
Course Code: ZOC 1.21
(Principles of Ecology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. What are species? Differentiate sympatric and allopatric speciation with examples. 2+6+6= 14
2. Explain the effects of light and temperature on organisms. 7+7= 14

UNIT-II

3. Explain in detail dispersal and dispersion. 7+7=14
4. Explain life history strategies, (*r* and *k*). 14

UNIT-III

5. Write notes on the following: 7×2=14
 - (a) Hydrosere
 - (b) Lithosere
6. Write the characteristics of a community. Explain climax concept in succession with examples. 5+9=14

UNIT-IV

7. Describe food web. Discuss the energy flow through the ecosystem. 6+8= 14

8. What are ecosystems? Explain the pond ecosystem with a neat diagram. 3+11=14

UNIT-V

9. Elaborate on biodiversity conservation strategies. 14
10. Define biosphere. Discuss the biosphere reserves of India. 2+12=14
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