



K24U 0090

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree (C.B.C.S.S.-OBE – Regular/Supplementary/  
Improvement) Examination, April 2024  
(2019 to 2021 Admissions)  
CORE COURSE IN ZOOLOGY  
6B11ZLG : Environmental Science**

Time : 3 Hours

Max. Marks : 40

- I. **Essay** questions. **Each** question carries **8** marks. Answer **any two**. (2×8=16)
- 1) Comment on the physical features, fauna, and their adaptations in different terrestrial ecosystems.
  - 2) Describe the major abiotic factors that exist in an ecosystem. Add a note on the interrelationship between biotic and abiotic factors.
  - 3) Explain the causes, effects, and remedial measures of major types of pollution.
  - 4) Describe the faunal characteristics of zoogeographical realms.
- II. **Short essay** questions. **Each** question carries **4** marks. Answer **any two**. (2×4=8)
- 5) Briefly explain the major concepts of energy flow in the ecosystem.
  - 6) Narrate the economic values of the species diversity.
  - 7) Describe the role of NBA and SBB in biodiversity conservation.
- III. **Short answer** questions. **Each** question carries **2** marks. Answer **any six**. (6×2=12)
- 8) Define perfect nutrient cycles. Give one example.
  - 9) Explain the process of succession.

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- 10) With examples explain proto cooperation.
  - 11) Explain population fluctuations.
  - 12) Write a note on disaster-prone regions in India.
  - 13) Differentiate between in-situ and ex-situ conservation.
  - 14) Explain the Liebig's law of minimum.
  - 15) What are the major causes leading to loss of biodiversity ?
- IV. **Multiple choice** questions. **Each** question carries **0.5** marks. Answer **all**. (8×0.5=4)
- 16) The quantitative measure of the relative extant or degree of maternal recycling in the biosphere is
    - a) Recycling index
    - b) Recycling pathway
    - c) Recycling plan
    - d) Recycling profit
  - 17) Project Elephant was launched by Govt. of India in the year
    - a) 1973
    - b) 1992
    - c) 1956
    - d) 1984
  - 18) Parasites that accidentally reach an unusual host and survive there are called
    - a) Erratic parasites
    - b) Sporadic parasite
    - c) Obligatory parasite
    - d) Incidental parasite
  - 19) The usefulness of biodiversity in providing goods and materials for the direct use of man and domestic animals is called
    - a) consumptive use value
    - b) productive use value
    - c) social use value
    - d) aesthetic use value



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- 20) In general \_\_\_\_\_ phase of growth patterns are called as establishment phase.
  - a) Lag
  - b) Log
  - c) Expansion
  - d) Exponential
- 21) The term 'Biodiversity hotspot' was coined by
  - a) Thomas Lovejoy
  - b) Edward O. Wilson
  - c) Jane Goodall
  - d) Norman Myers
- 22) The Forest Conservation Act was enacted by the Parliament of India on
  - a) 1970
  - b) 1980
  - c) 1990
  - d) 2000
- 23) The major reservoir of phosphorous is
  - a) soil
  - b) ocean
  - c) atmosphere
  - d) lakes