

B.Sc. ZOOLOGY
FIRST SEMESTER (SPECIAL REPEAT)
ECOLOGY
BSZ-102

(Use separate answer scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

[PART-A : Objective]

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1 × 20 = 20

- Which criteria of species are presently not there in the IUCN threatened category?
 - Extinct
 - Vulnerable
 - Not evaluated
 - None of these
- A species is categorized as Endangered by IUCN if its population size decreased by:
 - 20% in 3 years
 - 20% in 1 generation
 - 20% in 3 years OR 1 generation
 - None of these
- IUCN previous name was:
 - International Union for Protection of Nature
 - World Conservation Union
 - Both a & b
 - None of these
- Which one of the following is correct?
 - The Wild Life (protection) Act, 1972
 - The Wildlife (protection) Act, 1972
 - The Wild Life (protection) Act, 1972
 - None of these
- Minerals resources are those which are:
 - Inorganic compounds
 - Do not contain carbon
 - Both a & b
 - None of these
- What percentage of water is present as ice cap and glacier?
 - 5%
 - 7%
 - 10%
 - None of these
- Particulate pollutants includes:
 - Smoke
 - Dust
 - Fumes
 - All of these
- Pre-mature ageing in plant is caused by:
 - SO₂
 - CO
 - NO_x
 - All of these
- Inorganic pollutants are:
 - Alkaline
 - Acidic
 - Both
 - None of these
- Secondary Pollutants are:
 - SO₂
 - SO₃
 - NO_x
 - None of these

11. The biotic potential for a species in a community is:
 - a. Varied
 - b. Constant
 - c. Can't be determined
 - d. Depends on environmental factors
12. The survivorship curves of elephants is:
 - a. Highly Concave
 - b. Highly Convex
 - c. Diagonal
 - d. Almost diagonal
13. The limiting factor in Leibeg's experiment was:
 - a. Hydrogen
 - b. Nitrogen
 - c. Boron
 - d. Calcium
14. The rate of birth at existing local environmental conditions is known as:
 - a. Natality
 - b. Fecundity
 - c. Fertility
 - d. Mortality
15. Assemblage of individuals of same type of species in an area in a given time is called:
 - a. Polyspecific population
 - b. Community
 - c. Monospecific population
 - d. None of these
16. Sunderbans are _____ type of ecosystems.
 - a. Deciduous
 - b. Tropical rainforest
 - c. Deserts
 - d. None of these
17. Which of the following types of ecosystems have a greater risk of extinction?
 - a. Polyculture
 - b. Monoculture
 - c. Both of the above
 - d. None of the above
18. Desserts are also known as
 - a. Wetlands
 - b. Arid ecosystems
 - c. Tropical ecosystems
 - d. Terrai
19. The starting point of all food chains are
 - a. Heterotrophs
 - b. Autotrophs
 - c. Cannot be determined
 - d. Same
20. The more complex the organisms are, the _____ is the food chain.
 - a. Small
 - b. Long
 - c. Medium
 - d. Depend on resource

(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What is a food chain? Explain the different aspects of a food chain. Write about its various types with suitable examples. 2+4+4=10
2. Define natural resource. Categorize the resources. Enumerate the importance of forest resources. 1+2+7=10
3. What is the full form of CITES? Brief about the aim, vision statement and appendix of CITES. 1+3+3+3=10
4. Define water pollution. Classify the water pollutants and mention the effect of water pollution on the environment. 2+4+4=10
5. What is a community? Write about the various attributes of a community with suitable diagrams. 2+8=10
6. What is a population? Explain the characteristics with suitable illustrations. 2+8=10
7. Write about the Leibeg's law of Minimum with its subsidiary principles. What is significance of limiting factors? 6+4=10
8. Write the differences: 5+5=10
 - a. National Park Vs Wildlife Sanctuary
 - b. Conservation Reserve VS Community Reserve

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