

**B.Sc. ZOOLOGY**  
**FIRST SEMESTER (REPEAT)**  
**ECOLOGY**  
**BSZ-102**  
[USE OMR FOR OBJECTIVE PART]

**SET**  
**A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

( Objective )

Marks: 20

*Choose the correct answer from the following:*

*1 × 20 = 20*

1. Which one of the following is correct?
  - a. The Wild Life (protection) Act, 1972
  - b. The Wildlife (protection) act, 1972
  - c. The Wild Life (protection) act, 1972
  - d. None of these
2. IUCN previous name was:
  - a. International Union for Protection of Nature
  - b. World Conservation Union
  - c. Both a & b
  - d. None of these
3. Which criteria of species are presently not there in the IUCN threatened category?
  - a. Extinct
  - b. Vulnerable
  - c. Not evaluated
  - d. None of these
4. A species is categorized as Endangered by IUCN if its population size decreased by:
  - a. 20% in 3 years
  - b. 20% in 1 generation
  - c. 20% in 3 years or 1 generation
  - d. None of these
5. Minerals resources are those which are:
  - a. Inorganic compounds
  - b. Do not contain carbon
  - c. Both a & b
  - d. None of these
6. What percentage of water is present as ice cap and glacier?
  - a. 5%
  - b. 7%
  - c. 10%
  - d. None of these
7. Particulate pollutants includes:
  - a. Smoke
  - b. Dust
  - c. Fumes
  - d. All of these
8. Pre-mature ageing in plant is caused by:
  - a. SO<sub>2</sub>
  - b. CO
  - c. NO<sub>x</sub>
  - d. All of these
9. Inorganic pollutants are:
  - a. Alkaline
  - b. Acidic
  - c. Both
  - d. None of these
10. Secondary Pollutants are:
  - a. SO<sub>2</sub>
  - b. SO<sub>3</sub>
  - c. NO<sub>x</sub>
  - d. 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. Nataliy
  - 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. Deserts 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

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**( Descriptive )**

Time : 2 hr. 30 mins.

Marks : 50

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

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

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