

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov.- 2024 (Old Course)
ECOLOGY (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Answer the following. (Any one out of two) (07)
1. Discuss types of Ecosystem.
 2. Explain: Y-shaped energy flow model of Ecosystem.
- Que.1(B) Attempt any one. (out of two) (04)
1. Explain Productivity of Ecosystem.
 2. Elaborate the Structure of Ecosystem.
- Que.1(C) Attempt any three. (out of five) (03)
1. Define the term: Producers
 2. Give the example of Artificial Ecosystem.
 3. Give the name of Abiotic Component.
 4. What is Ammonification?
 5. What is meant by 10% Law?
- Que.2(A) Answer the following. (Any one out of two) (07)
1. Discuss methods of Ecological Studies.
 2. Elaborate the quantitative characters used in Community Structure.
- Que.2(B) Attempt any one. (out of two) (04)
1. Discuss about characters of Community.
 2. Explain synthetic characters used in Community Structure.
- Que.2(C) Attempt any three. (out of five) (03)
1. Give the definition: Frequency
 2. Explain the word: Phenology
 3. Give the equation of Abundance.
 4. Give the formula for calculation of Density.
 5. Define basal area of Species.
- Que.3(A) Answer the following. (Any one out of two) (07)
1. Explain the Ecological Pyramids.
 2. Explain the process and types of Succession.
- Que.3(B) Attempt any one. (out of two) (04)
1. Explain the trends of Succession.
 2. Discuss about characteristic of Population.
- Que.3(C) Attempt any three. (out of five) (03)
1. Give name the types of dispersion found in Population.
 2. What is Sere?
 3. Which type of shape found in Pyramid of Energy?
 4. What is Emigration?
 5. In which Ecosystem Pyramid of numbers is Inverted?

- Que.4(A) Answer the following. (Any one out of two) (07)
1. Explain: Biological Clock
 2. Describe Law of Tolerance with Graph.
- Que.4(B) Attempt any one. (out of two) (04)
1. Describe: Liebig's Law of Minimum.
 2. Explain: Ecological Amplitude.
- Que.4(C) Attempt any three. (out of five) (03)
1. What is example of Law of Tolerance?
 2. What is the Circadian Rhythm/Cycle?
 3. What are the five Ecological Factors?
 4. What is Ecology?
 5. By which Common Test Seed Viability is tested?
- Que.5(A) Answer the following. (Any one out of two) (07)
1. Write issues involved in enforcement of Environmental Legislations.
 2. Explain: Composition of GPS.
- Que.5(B) Attempt any one. (out of two) (04)
1. Explain non-formal environmental education in India.
 2. Discuss the problems in effective implementation of environmental law in India.
- Que.5(C) Attempt any three. (out of five) (03)
1. What do you mean by Environment Law?
 2. The Environment (Protection) Act, _____ (mention year)
 3. The Wildlife Protection Act, _____(mention year)
 4. Give full form of EIA.
 5. What is full form of GPS?
