

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov. - 2022(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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Q-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

Q-1(B) Attempt any one (out of two) (04)

- 1) Explain productivity of ecosystem
- 2) Elaborate the structure of ecosystem

Q-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?

Q-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

Q-2(B) Attempt any one (out of two) (04)

- 1) Discuss about characters of community
- 2) Explain synthetic characters used in community structure

Q-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

Q-3(A) Answer the following (Any one out of two) (07)

- 1) Explain the ecological pyramids
- 2) Explain the process and types of succession

Q-3(B) Attempt any one (out of two) (04)

- 1) Explain the trends of succession
- 2) Discuss about characteristic of population

- Q-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?
- Q-4(A) Answer the following (Any one out of two) (07)
- 1) Explain: Biological clock
 - 2) Describe law of tolerance with graph
- Q-4(B) Attempt any one (out of two) (04)
- 1) Describe :Liebig's law of minimum
 - 2) Explain: Ecological amplitude
- Q-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?
- Q-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
- Q-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.
- Q-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?
