

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
March/April-2024 (NEW 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 objective type questions. (04)
- 1) Who is the father of Ecology in India?
 - 2) What are the four ecological factors?
 - 3) Who introduced law of tolerance?
 - 4) What are biological clocks?
- Que-1 (B) Answer in brief (Any one out of two) (03)
- 1) Describe: Biotic factors
 - 2) Explain: Liebig's law of the minimum
- Que-1 (C) Write a Note (Any one out of two) (07)
- 1) Light as a climatic ecological factor.
 - 2) Explain: Biological clock
- Que-2 (A) Answer the following objective type questions. (04)
- 1) What is Estival?
 - 2) What is stratification?
 - 3) Write a formula of Abundance
 - 4) _____ frequency class is belonging to 61-80 % frequency according to Raunkiers.
- Que-2 (B) Answer in brief (Any one out of two) (03)
- 1) Give difference between monoculture community and polyculture community with example.
 - 2) Write a short note on structure zonation and stratification of pond.
- Que-2 (C) Write a Note (Any one out of two). (07)
- 1) Write methods of Ecological Studies.
 - 2) What is plant community? Describe quantitative character used in plant community
- Que-3 (A) Answer the following objective type questions. (04)
- 1) Define: Ecesis
 - 2) What is the process of succession nudation?
 - 3) Define: Niche
 - 4) What is the final stage of succession?
- Que-3 (B) Answer in brief (Any one out of two) (03)
- 1) Explain Allogenic and Autogenic plant succession?
 - 2) Difference between fundamental & realised niche
- Que-3 (C) Write a Note (Any one out of two) (07)
- 1) Explain the types of succession
 - 2) Define population with explain: Age structure, Natality, Mortality and life tables

- Que-4 (A) Answer the following objective type questions (04)
- 1) What is Biotope?
 - 2) Give an example of upright pyramid
 - 3) What is Biomass?
 - 4) Write a two major components of ecosystem
- Que-4 (B) Answer in brief (Any one out of two). (03)
- 1) What is ecological pyramids write a short note on Inverted pyramids
 - 2) Give difference between Autotrophs & Heterotrophs
- Que-4 (C) Write a Note (Any one out of two) (07)
- 1) Write a note on Pond & Marine water ecosystem
 - 2) Describe in brief: Productivity of ecosystem.
- Que-5 (A) Answer the following objective type questions (04)
- 1) What is the conservation of biodiversity?
 - 2) True or False: The fig tree is a keystone species.
 - 3) Who coined the term biodiversity?
 - 4) Which is the 1st botanical garden of India?
- Que-5 (B) Answer in brief (Any one out of two) (03)
- 1) Explain: Role of key stone species in ecosystem
 - 2) Give concept of Biodiversity
- Que-5 (C) Write a Note (Any one out of two) (07)
- 1) Describe any two phytogeographical region of India studied by you
 - 2) Explain: Biosphere reserve as a tool for conservation
