

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
March/April-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: Single –channel energy flow Model
 - 2) Write a note on cropland Ecosystem & Forest Ecosystem
- Que-1 (B) Attempt any one (Out of two) (04)
- 1) What is productivity? Describe Primary productivity.
 - 2) Define with example
 1. Herbivores
 2. Carnivores
 3. Omnivores
 4. Decomposers
- Que-1 (C) Attempt any three (Out of Five) (03)
- 1) Give an example of climatic factors
 - 2) True or False: 10% law is given by Lindeman in 1942
 - 3) What is Artificial Ecosystem?
 - 4) Who give Y-shaped energy flow Model
 - 5) True or False: Energy flow models are based on first and second law of Thermodynamics.
- Que-2 (A) Answer the following (Any one out of two) (07)
- 1) Define quantitative characters used in plant community.
 - 2) Write a brief note on life forms of Raunkier's.
- Que-2 (B) Attempt any one (Out of two) (04)
- 1) Write difference between Monoculture and Polyculture community.
 - 2) Write short note on structural zonation on Pond community.
- Que-2 (C) Attempt any three (Out of Five) (03)
- 1) What is Hemicryptophytes
 - 2) What is Indian father of ecology?
 - 3) What is list quadrat?
 - 4) _____ class belongs to 21-40% frequency range based on Raunkier's frequency class.
 - 5) Give example of vertical stratification.
- Que-3 (A) Answer the following. (Any one out of two) (07)
- 1) Explain types of example of ecological succession.
 - 2) Population characteristics explain in details.
- Que-3 (B) Attempt any one (Out of two) (04)
- 1) Explain the three types of succession.
 - 2) What is inverted pyramid? discuss it types.
- Que-3 (C) Attempt any three (Out of Five) (03)
- 1) In ecological succession, the intermediate development phase is known as.
 - 2) What is the final stage of succession?
 - 3) Which pyramid is present in pond ecosystem?
 - 4) Who are the pioneers in xerosere?
 - 5) Who coined by ecology?

- Que-4 (A) Answer the following (Any one out of two) (07)
- 1) Light as a climatic ecological factor.
 - 2) Explain: Biological clock.
- Que-4 (B) Attempt any one (Out of two) (04)
- 1) Describe: Biotic factors
 - 2) Explain: Liebig's law of the minimum
- Que-4 (C) Attempt any three (Out of Five) (03)
- 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?
 - 5) What is autecology?
- Que-5 (A) Answer the following (Any one out of two) (07)
- 1) Explain: Well known Institutions for Environment studies in India
 - 2) Explain: Environment laws in India
- Que-5 (B) Attempt any one (Out of two) (04)
- 1) Describe: Advantages and Disadvantages of GPS?
 - 2) Describe: Environment Education
- Que-5 (C) Attempt any three (Out of Five) (03)
- 1) Give the full form of GPS
 - 2) True or False: The Giant Panda has been the symbol of WWF since its formation in 1961.
 - 3) What are 4 types of environment pollution?
 - 4) What are 5 benefits of a healthy environment?
 - 5) Give the full form of GEER Foundation
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