

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
March/April-2026 (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 in Short. | (04) |
| | (1) Who proposed the 'Law of the Minimum'? | |
| | (2) List any two biotic interactions. | |
| | (3) Define 'Biological Clock'. | |
| | (4) Give the full form of PAR. | |
| Que.1(B) | Answer in Brief. (Any One) | (03) |
| | (1) What are edaphic factors? | |
| | (2) Explain Shelford's Law of Tolerance. | |
| Que.1(C) | Write a Note on.(Any One) | (07) |
| | (1) Climatic factors influencing plant growth. | |
| | (2) Biotic interactions (any two types in detail with example). | |
| Que.2(A) | Answer in Short. | (04) |
| | (1) Define 'Stratification'. | |
| | (2) What is an 'Ecotone'? | |
| | (3) Name any one method for studying vegetation. | |
| | (4) Give the term for the physical appearance of a community. | |
| Que.2(B) | Answer in Brief.(Any One) | (03) |
| | (1) List any three analytical characters of a community. | |
| | (2) Name and define any three types of 'Quadrat'? | |
| Que.2(C) | Write a Note on.(Any One) | (07) |
| | (1) Any five Characters used in the study of community structure. | |
| | (2) Transect Methods of ecological studies. | |
| Que.3(A) | Answer in Short. | (04) |
| | (1) Define 'Pioneer Species'. | |
| | (2) What is an 'Ecological Niche'? | |
| | (3) Name the final stable community in succession. | |
| | (4) List any one characteristic of a population. | |
| Que.3(B) | Answer in Brief(Any One) | (03) |
| | (1) Define 'Plant Succession'. | |
| | (2) Differentiate between habitat and niche. | |
| Que.3(C) | Write a Note on.(Any One) | (07) |
| | (1) Process of plant succession. | |
| | (2) Hydrarch plant succession. | |
| Que.4(A) | Answer in Short. | (04) |
| | (1) Name the first trophic level in an ecosystem. | |
| | (2) Give the full form of GPP. | |
| | (3) Which pyramid is always upright in a terrestrial ecosystem? | |
| | (4) List the two main components of ecosystem structure. | |

- Que.4(B) Answer in Brief.(Any One) (03)
(1) What is an Ecological Pyramid of Numbers?
(2) Define 'Secondary Productivity'.
- Que.4(C) Write a Note on.(Any One) (07)
(1) Energy flow through an ecosystem (with a linear diagram).
(2) Types and structure of Aquatic ecosystems.
- Que.5(A) Answer in Short. (04)
(1) Name any two biodiversity hotspots in India.
(2) Define 'Keystone Species'.
(3) List any one method for measuring biodiversity.
(4) What does 'in-situ conservation' mean?
- Que.5(B) Answer in Brief.(Any One) (03)
(1) Explain the 'Genetic' level of biodiversity.
(2) Name and describe in short any two phytogeographical regions of India.
- Que.5(C) Write a Note on.(Any One) (07)
(1) Ex-situ Biodiversity Conservation methods.
(2) Phytogeographical regions of India and their characteristic vegetation.
