

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov - 2022 (NEW COURSE)
Ecology(Core)

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

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

Q-1(A) Answer the following objective type questions (04)

- 1) Define term : Ecology
- 2) Give the name of Biotic factor
- 3) Which prefix is used respectively broad and narrow range of tolerance in shelford's law
- 4) Give the example of Biological clock

Q-1(B) Answer in brief (Any one out of two) (03)

- 1) Describe : Abiotic factors
- 2) Explain: Shelford's law of tolerance

Q-1(C) Write a Note (Any one out of two) (07)

- 1) Interaction among the organisms
- 2) Explain : Biological clock

Q-2(A) Answer the following objective type questions (04)

- 1) Give the definition of line transect
- 2) Define the term communitiy
- 3) Community consist only biotic factors .True or False ?
- 4) Define the word : Frequency

Q-2(B) Answer in brief (Any one out of two) (03)

- 1) Explain the Raunkiers's life form
- 2) Explain the quadrat method

Q-2(C) Write a Note (Any one out of two) (07)

- 1) Explain the Analytical characters (Quantitative and Qualitative)
- 2) What is the community? and explain the characteristics of a community.

Q-3(A) Answer the following objective type questions (04)

- 1) Give the name of basic types of succession
- 2) Define the term Allogenic succession
- 3) Define the term Nudation
- 4) What is sere ?

Q-3(B) Answer in brief (Any one out of two) (03)

- 1) Explain the causes of succession.
- 2) Explain fundamental & realised niche

- Q-3(C) Write a Note (Any one out of two) (07)
- 1) Explain the characteristics of a population
 - 2) Explain the process of succession
- Q-4(A) Answer the following objective type questions (04)
- 1) Give the example of Decomposer
 - 2) Define the term Consumers
 - 3) Give the name of Abiotic components
 - 4) Which type of Pyramid is always upright ?
- Q-4(B) Answer in brief (Any one out of two) (03)
- 1) Give the difference between the Gross primary productivity (GPP) and Net Primary Productivity (NPP)
 - 2) Discuss the number of pyramid in forest ecosystem
- Q-4(C) Write a Note (Any one out of two) (07)
- 1) What is an ecosystem ? Discuss single channel energy flow model
 - 2) Describe the abiotic and biotic components of any fresh water ecosystem
- Q-5(A) Answer the following objective type questions (04)
- 1) True or False: Key stone species are usually predators
 - 2) In which phytogeographic region the Sunderbans sub-zone includes?
 - 3) Who coined the term biodiversity?
 - 4) Give the definition of Micro habitat
- Q-5(B) Answer in brief (Any one out of two) (03)
- 1) Give concept of Biodiversity
 - 2) Explain: Role of key stone species in ecosystem
- Q-5(C) Write a Note (Any one out of two) (07)
- 1) Explain : Biosphere reserve as a tool for conservation
 - 2) Describe any two phytogeographic region of India studied by you
