

M.Sc. (Botany) Semester - 3 (CBCS) Examination
Nov/Dec-2023 (NEW COURSE)
Plant Ecology (Core (New))

Time: 2:30 Hours

Marks: 70

Instructions:

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

SECTION-I

- Q.1 Answer the followings (Two short Questions)**
- A. Write a note on ecological succession. 07
- B. Explain the analytical characters of plant community. 07
- OR**
- Q.1 Write a detail note on IUCN categories and Biodiversity hotspot of India.** 14
- Q.2 Answer the followings (Two short Questions)**
- A. Describe the soil horizons with chart. 07
- B. Write a note on ecological pyramids. 07
- OR**
- Q.2 What is ecosystem? Explain about its types in details.** 14
- Q.1 Do as direct (any seven out of eight questions each of one mark)** 07
- (1) What is PBR?
- (2) State the four scientific names of invasive species.
- (3) What is full form of NBA and its role?
- (4) Define ecological niche.
- (5) What are the compositions of soil?
- (6) Give the names of phytoremediation mechanism.
- (7) Write down the names of chemical weathering process in soil formation.
- (8) Explain food chain.

SECTION-II

- Q.1 What is climate change? Write a detail note on greenhouse gases and consequences of climate change.** 14
- OR**
- Q.1 Answer the followings (Two short Questions)**
- A. Write a note on principles of limiting factors. 07
- B. Explain the ecological adaptation in hydrophytes. 07
- Q.2 What is the principle of Remotes Sensing? Describe the components of remote sensing with its applications in forest resource management.** 14
- OR**
- Q.2 Answer the followings (Two short Questions)**
- A. Write a note the process of desertification. 07
- B. What is GIS and explain its applications. 07
- Q.3 Do as direct (any seven out of eight questions each of one mark)** 07
- (1) What is the Ozone hole?
- (2) Define parasitism with one example.
- (3) Give name of characteristics of population ecology.
- (4) Explain any one role of light factor in plants.
- (5) What is vector data in GIS?
- (6) What are the limitations of remote sensing?
- (7) State causing factors for desertification.
- (8) What are the applications of remote sensing in environmental study?
