

M.Sc. (Botany) Semester - 3 (CBCS) Examination
Oct/Nov-2022 (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. What is biodiversity? Discuss the concept, level and role of its in ecosystem. **07**
B. Write a detailed note on documenting biodiversity by PBR. **07**

OR

Q.1 Describe the composition, stratification and qualitative characteristics of plant community. 14**Q.2 Answer the followings (Two short Questions)**

- A. Discuss the terrestrial ecosystem. **07**
B. Define phytoremediation and explain various mechanism of its. **07**

OR

Q.2 Describe the properties of soil and its erosion. 14**Q.3 Do as direct (any seven out of eight questions each of one mark) 07**

- 1) Explain nivation process of succession.
- 2) Enlist the biodiversity hotspots of India.
- 3) What are criteria for endangered plant species in IUCN.
- 4) What is inhibition model of succession?
- 5) Describe biomass pyramid of ecology of grassland ecosystem.
- 6) What is the composition of soil.?
- 7) Define biosphere.
- 8) Write down name of physical weathering process in soil formation.

SECTION-II

Q.1 Write a detail note on ecological adaptations in hydrophytes and xerophytes. 14

OR

Q.1 Answer the followings (Two short Questions)

- A. Explain the Environmental Impact Assessment. **07**
B. Discuss the characteristics of population ecology. **07**

Q.2 Discuss the remote sensing with its applications. 14

OR

Q.2 Answer the followings (Two short Questions)

- A. Explain the process of desertification. **07**
B. Describe the Geographic Information system **07**

Q.3 Do as direct (any seven out of eight questions each of one mark) 07

- 1) Explain Blackman's law of limiting factor.
- 2) Define desertification.
- 3) What are advantages of Remote Sensing?
- 4) What is raster data in GIS?
- 5) Discuss Ozone hole.
- 6) Write any two impacts of desertification.
- 7) Describe commensalism with example.
- 8) What is carrying capacity?
