

**M.Sc. (Botany) Semester - 3 (CBCS) Examination**  
**Oct/Nov. -2019 - [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.
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**SECTION - I**

- Q.1 Answer the following
- (a) Write short note on Ecological Niche (07)
- (b) Explain in detail the process of Development of ecosystem (07)

**OR**

- Q.1 Elaborate the Methods of estimating community (14)

- Q.2 Answer the following
- (a) Food chain (07)
- (b) Energy flow (07)

**OR**

- Q.2 Write a detailed note on green house gases and ozone hole. (14)
- Q.3 Answer the following (any seven) (07)
1. Define the term Phytoremediation.
  2. State the names of phytosociological methods applied for studying community
  3. State any four important functions of biodiversity in our lives.
  4. What is PBR? Explain its importance
  5. What are threatened and endangered species?
  6. Which are the major layers of soil
  7. What is IUCN?
  8. Explain the significant of biodiversity hot spot

**SECTION - II**

- Q.1 Discuss in detail the factors affecting ecology. (14)

**OR**

- Q.1 Answer the following
- (a) write short note on factors and causes of desertification (07)
- (b) Explain - EIA (07)
- Q.2 Describe and derive the equation of - population dynamics (14)

**OR**

- Q.2 Write short note on:
- (a) Process of desertification (07)
- (b) application of remote sensing GIS (07)
- Q.3 Answer the following (any seven) (07)
1. What are CFCs? Explain their role in environment
  2. What is law of maximum? State its significant for the species
  3. Explain the term 'Mutualism'
  4. State any two negative species interactions found in nature
  5. What is 'K' in ecology?
  6. State the components of Remote sensing
  7. What is primary production in ecosystem?
  8. What is the significance of GIS?

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