

M.Sc.(Botany) (CBCS Pattern) Sem-III  
**PSCBOTT09 - Paper-IX : Plant Ecology**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11241**

Max. Marks : 80

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1. Explain in brief the mechanism of 'Ecological Succession' with reference to changes in ecosystem properties during succession. **16**

**OR**

Write notes on;

- a) Analysis of Community **8**  
b) Quadrat method **8**

2. Describe 'Ecosystem Organization' with respect to its structure and functions. **16**

**OR**

Write notes on;

- a) Methods for measurement of 'Primary Productivity' **8**  
b) Nitrogen cycle in Terrestrial and Aquatic ecosystems. **8**

3. Write an essay on 'Consequences of Climate Change'. **16**

**OR**

Write notes on;

- a) Effects of Soil Pollution on Plants. **8**  
b) Green House Gases. **8**

4. Discuss 'Ecological Perturbations' and its impact on plants/ecosystem. **16**

**OR**

Write notes on;

- a) Concept of Resistance and Resilience. **8**  
b) Ecology of Plant Invasion. **8**

5. Write short note on:

- a) Ecological niche. **4**  
b) Energy flow pathways. **4**  
c) Ozone layer and Ozone hole. **4**  
d) Environmental Impact Assessment. **4**

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