

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

P. Pages : 1

Time : Three Hours



**GUG/W/23/11241**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw diagrams wherever necessary.

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) Concept of Ecological niche. **8**

2. What is global biogeochemical cycle? Write about carbon and nitrogen cycle. **16**

**OR**

Write notes on:

- a) Energy dynamics. **8**  
b) Litter fall and decomposition. **8**

3. Write an essay on consequences of climate change. **16**

**OR**

Write notes on:

- a) Effect of soil pollution on plants. **8**  
b) Sources of air pollution. **8**

4. Describe Environmental Impact Assessment. Add note on ecosystem restoration. **16**

**OR**

Write notes on:

- a) Concept of resistance and resilience. **8**  
b) Ecology of plant invasion. **8**

5. Write short notes on:

- a) Autecology. **4**  
b) Energy flow pathway. **4**  
c) Ozone layer and ozone hole. **4**  
d) Concept of sustainable development. **4**

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