

M.Sc. (Botany) (NEP Pattern) Semester-IV  
**04MSCBOT01 / 04 MSCB1 - DSC Paper-I : Plant Ecology**

P. Pages : 1

Time : Three Hours



**GUG/S/25/16319**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate your answers with diagrams & suitable examples.

**1. What is succession? Describe the mechanism of ecological succession. 16**

**OR**

Write notes on-

- a) Concepts of community and continuum. **8**
- b) Concept of ecological niche. **8**

**2. Explain the structure and function of ecosystem and Add a note on energy dynamics. 16**

**OR**

Write notes on-

- a) Litter fall and decomposition. **8**
- b) Carbon and nitrogen cycles. **8**

**3. Give an account of sources of water pollutants and their effects on crop plants. 16**

**OR**

Write notes on-

- a) Sources and role of green house gases. **8**
- b) Consequences of climate change. **8**

**4. What is the sustainable development and explain it's role in ecological management. 16**

**OR**

Write notes on-

- a) Environmental impact assessment. **8**
- b) Ecological perturbations. **8**

**5. Write short notes on-**

- a) Autecology. **4**
- b) Energy flow pathway. **4**
- c) Ozone layer. **4**
- d) Plant invasion. **4**

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