

(041430302)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017

THIRD SEMESTER

Branch - Botany

Paper III — PLANT ECOLOGY

Time : 3 Hours

Max. Marks : 70

**SECTION - A**

Answer any FIVE of the following.

(Marks : 5 × 4 marks = 20 marks)

1. Soil profile.
2. Temperate forests.
3. Interspecific Association.
4. Ecological Niches.
5. Energy Dynamics.
6. Trophic Organization.
7. Radiation Pollution.
8. Causes of water pollution.

**SECTION - B**

Answer ONE question from each Unit.

(Marks : 4 × 12.5 marks = 50 marks)

**UNIT - I**

9. (a) Write a detail account of soil physical, chemical, organic matter and micro flora.  
Or  
(b) Give a detail account on the Tropical forest types.

**UNIT - II**

10. (a) Explain the process of succession, dominance, steady state and equilibrium.  
Or  
(b) Discuss about the intraspecific interactions.

**UNIT - III**

11. (a) Explain about the productivity and factors affecting primary production.  
Or  
(b) Write in detail about the Carbon cycle and factors affecting the carbon cycle.

**UNIT - IV**

12. (a) What are the principles of Phytogeography?  
Or  
(b) Write in detail about the biogeographical zones of India.
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