

Roll No. \_\_\_\_\_

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**SCIIS-N-060 A-19**  
**B.Sc II Semester (CBCS) Degree Examination**  
**BOTANY**  
**(Plant Ecology and Taxonomy)**  
**Paper - 2**  
**(New)**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidate :**

1. Answer **ALL** the Sections.
2. Diagram will enhance the value of answers.

**SECTION - A**

- I. Answer any **TEN** of the following in two or more sentences. **(10×2=20)**
- 1) What is Pedology?
  - 2) What is Nudation?
  - 3) Define Shelford's law of Tolerance.
  - 4) What is Food web?
  - 5) What is Ecotone?
  - 6) What is Ecology? Who coined the term ecology?
  - 7) What is Multi - access?
  - 8) What is Taxonomic hierarchy?
  - 9) What is Cladogram?
  - 10) Define APG system.
  - 11) What is OTU?
  - 12) What is Cluster Analysis?

**SECTION - B**

**II. Answer any FOUR of the following questions :**

**(4×5=20)**

- 13) Explain the Origin and Formation of Soil.
- 14) Define Succession. Explain the types.
- 15) What are Ecological pyramids? Explain pyramid of number.
- 16) Explain the Principles and rules of ICN.
- 17) Write a note on Herbarium.
- 18) What are the Activities of BSI ?

**SECTION - C**

**III. Answer any FOUR of the following questions :**

**(4×10=40)**

- 19) Explain the Morphological and anatomical adaptations of Xerophytes.
- 20) Describe the Nitrogen cycle.
- 21) Describe Biogeographical zones of India.
- 22) Add a note on Taxonomic evidences from palynology.
- 23) Write a note on Botanical gardens of India and world.
- 24) Explain Bentham and Hooker's system of classification. Give the merits and demerits.

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