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Total No. of Printed Pages: [01]

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**B.Sc.-M.Sc. (Forensic Science) (Semester – 2<sup>nd</sup>)**  
**PLANT ECOLOGY & TAXONOMY**  
**Subject Code: BMFSS1-203**  
**Paper ID: [23480115]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a. Binomial system of nomenclature
- b. Primary and secondary succession
- c. Cruciform corolla
- d. Shelford law of tolerance
- e. Significance of herbaria
- f. Difference between artificial and natural classification
- g. Nitrogen cycling in the environment
- h. Define plant taxonomy
- i. Principles of ICN
- j. Carbon footprint and its importance

**Section – B**

**(5 marks each)**

- Q2. Give an account on concept of air pollution and its effects.
- Q3. Define ecological pyramids. Explain the types along with their significance.
- Q4. Write a note on typification in taxonomy.
- Q5. Give outline of any one phylogenetic system of classification.
- Q6. Give a detailed outline of floral characters of family Lamiaceae.

**Section – C**

**(10 marks each)**

- Q7. Explain the contribution of Bentham and Hooker to plant taxonomy. Give the merits and demerits of their system.
- Q8. Write a detailed note on structure and functions of ecosystem with suitable examples.
- Q9. Give a detailed description of family Poaceae with the help of diagrams.