Roll No……..….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

B.Sc.-M.Sc. (Forensic Science) (Semester – 2nd)
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.