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) Inflorescence of family Lamiaceae
b) What is valid publication?
c) Differentiate between natural and phylogenetic system of classification with one example for each.
d) Write two advantages of multi access keys.
e) Write diagnostic features of family Solanaceae.
f) Define soil profile.
g) Differentiate the two florets found in capitulum. (at least 4 points)
h) What do you mean by holotype and neotype?
i) What would be the consequences if the herbivores in a food chain are eliminated?
j) Define ecotone and give it characteristics.

Section – B **(5 marks each)**

Q2. Define biogeochemical cycling. Give an account on nitrogen cycle and its importance.
Q3. What is a botanical garden? How is it different from the herbarium? Describe any one national botanical garden.
Q4. Describe the floral characters of any one genus belonging to family Poaceae with the help of diagrams.
Q5. Explain the system of classification proposed by Bentham and Hooker.
Q6. Discuss various rules in relation to author citation and rejection of names.

Section – C **(10 marks each)**

Q7. Give a detailed account on concept of ecosystem and its structure. Name any man-made ecosystem and discuss how it is different from natural ecosystem.
Q8. Give a detailed description of family Brassicaceae with the help of diagrams and examples.
Q9. Write an elaborated note on causes, effects and control measures of water pollution.