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Total No. of Printed Pages: [01]

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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.