Botany [Minor] [NEP]

B.Sc. Third Semester End Examination-2024 PAPER-BOT-MI-301T

Plant Science-II [Morphology, Anatomy and Plant Taxonomy]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

1. Answer any five of the following:

5x2=10

- a. Differentiate between interpetiolar and intrapetiolar stipule.
- b. Define tylosis.
- c. What is taxon?
- d. Write down two importances of herbarium.
- e. What is open collateral vascular bundle.
- f. Define Eudicots.
- g. Write down the function of lenticels.
- h. What is drupe? Give an example.

2. Answer any four of the following:

4x5 = 20

a. Briefly describe the different modifications in leaf with suitable examples.

- b. Mention the major distinguishing characters of the family
 Poaceae with example.
- c. Write a short note on different types of stomata in plants with suitable diagrams.
- d. Briefly describe the anatomical structure of a monocot
 root with suitable diagram.
- e. Mention the different types of phyllotaxy in leaves with appropriate examples.
- f. Write down the principles and rules of ICN. 3+2

3. Answer any one of the followings:

1x10=10

- a) Compare natural, artificial and phylogenetic systems of classification with examples. What do you know about Principle of Prionity?
- b) Write a short note on: Secondary growth in dicot stem. Compare between Asteraceae and Acanthaceae family.

 5+5