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FIRST YEAR (Regular)

**24BOT12101: FUNDAMENTALS OF PLANT MORPHOLOGY
(Semester II)**

Program: B.Sc.
Program Specific: B.Sc (Regular)
Course Type: Major
Paper:

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY SIX of the following: [6 X 2 = 12]

- a. Define binomial nomenclature.
- b. Explain the concept of descriptive morphology.
- c. Write the characteristics of parasitic roots.
- d. What are the functions of the stem in plants?
- e. Enlist the type of compound leaves.
- f. How would you describe Floral diagram & its purpose?
- g. What is venation? Comment on its type.
- h. Explain the structure of infundibuliform corolla.

Q2) Attempt ANY THREE of the following: [3 X 4 = 12]

- a. Give role of pneumatophores?
- b. State the different modifications of calyx in flower?
- c. Differentiate between dehiscent and indehiscent fruit.
- d. Analyze the flower based on the given formula: $Br, Br_1, K_{(5)} C_5 A_2 \underline{G}_{(2)}$.
- e. Explain the root modification for food storage.

Q3) Attempt ANY TWO of the following: [2 X 3 = 06]

- a. Give outline of Bentham and Hookers classification system in detail.
- b. Explain the different types of flowers based on the insertion of floral whorls on the thalamus.
- c. Discuss Cymose inflorescence in detail. Comment on its types
- d. Elaborate the type of multiple fruits.
