

BS/2051
PLANT ANATOMY–VII
(Semester–IV)

Time : Three Hours]

[Maximum Marks : 40

Note : Attempt *two* questions each from Section A and B
Section C will be compulsory.

SECTION–A

Do any *two* :

- I. Discuss organization of root apical meristem in vascular plants.
- II. Describe in detail permanent tissues in plants.
- III. Explain development of trichomes in plants.
- IV. Differentiate monocot root from dicot root in structure and function. (2×6=12)

SECTION–B

Do any *two* :

- V. Discuss in details the development of anomalous growth in vascular plants.

- VI. What are leaf modifications? What is their importance in plant life? Discuss the ecological conditions which are responsible for such modifications in plants.
- VII. Explain types, structure and functions of cambium in plants.
- VIII. How monocot leaf is different from dicot leaf in structure and functions? (2×6=12)

SECTION-C

- IX. All questions are compulsory :
- (a) Write note on guard cells.
 - (b) Write short note on stomata.
 - (c) What are fusiform initials, how they are formed and where they are present?
 - (d) Discuss briefly anomalous structure in angiosperms.
 - (e) Write note on cortical vascular bundles.
 - (f) How monocot root is different from dicot root?
 - (g) Discuss briefly fascicular cambium in plants.
 - (h) What are trichomes and what is their function? (8×2=16)
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