

Q.P. Code – 42433

Fourth Semester B.Sc. Degree Examination, September 2020

(CBCS Scheme)

Botany

Paper IV – PLANT ANATOMY, MORPHOLOGY OF ANGIOSPERMS,
PLANT PROPAGATION

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates :

- 1) Answer all Parts.
- 2) Draw labelled diagrams wherever necessary.

PART – A

1. Answer any **TEN** of the following : (10 × 2 = 20)

1. What is Meristem? Classify Meristem based on position in the plant body.
2. What are Bulliform cells? Where do you find them?
3. Differentiate between Hypogynous and Epigynous flower.
4. What are Radial vascular bundles? Give example.
5. What is Rhizome? Give an example.
6. Mention components of Xylem.
7. What are secretory tissues? Mention its types.
8. What is Stipule? Mention the types.
9. Mention any two advantages of Artificial plant propagation.
10. What are still roots? Where do you find them?
11. Differentiate between porous and non porous wood.
12. What is multiple fruit? Give examples.

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PART – B

- II. Answer any **SIX** of the following : **(6 × 5 = 30)**
13. Describe L.S. of phloem.
 14. Explain tap roots modified for food storage.
 15. What is Aestivation? Explain its types.
 16. Explain Tunica-Corpus theory.
 17. Describe types of pinnately compound leaves.
 18. With neat labelled diagram explain the T.S. of Dicot leaf.
 19. Explain Sucker and offset.
 20. Draw a neat labelled diagram of T.S. of Boerhaavia stem.

PART – C

- III. Answer any **FOUR** of the following : **(4 × 10 = 40)**
21. Explain any five types of Racemose inflorescence.
 22. Describe secondary growth in Dicot stem.
 23. Give an account of Dry Indehiscent fruits.
 24. Describe simple living tissues.
 25. With neat labelled diagram explain internal structure of Monocot stem.
 26. Describe Layering and Grafting.