

2023

**3rd Semester Examination**

**BOTANY (Honours)**

**Paper : C 5-T**

**[Anatomy of Angiosperms]**

**[CBCS]**

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers  
in their own words as far as practicable.*

**Group - A**

Answer any **five** of the following questions :  $2 \times 5 = 10$

1. What are hydathodes in plants?
2. What is schizogenous duct? Give an example.
3. What are epidermis and cuticle?
4. Write the differences between meristematic and permanent tissues.
5. Define tylosoid with example.
6. What is plasmodesmata?

P.T.O.

7. What is the basic principle of dendrochronology?
8. Write the differences between ring porous and diffuse porous wood.

**Group - B**

Answer any *four* of the following questions :  $5 \times 4 = 20$

9. With suitable diagram and discuss the Histogen theory of structural development of shoot apical meristem. 2+3
10. Write the function of vascular cambium. What is seasonal activity of cambium? 2+3
11. What is wood? Write the differences between heart wood and sap wood. 2+3
12. Write notes on (any *two*) :
  - (a) Different types of pits ;
  - (b) Features of monocot leaf ; and
  - (c) Reaction wood.
13. With suitable figures describe the different types of vascular bundles. 3+2
14. Write a note on Root-stem transition.

**Group - C**

Answer any *one* of the following questions :  $10 \times 1 = 10$

15. Write the anatomical adaptive features of xerophytic and hydrophytic plants. 5+5

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16. Write a note on cytodifferentiation and organogenesis during embryonic development. Briefly discuss on mechanical tissue distribution and significance. 6+4
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