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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

B.Sc. Botany

Complementary Course—ANGIOSPERM ANATOMY AND APPLIED BOTANY

(For B.Sc. Zoology Model II)

[2013—2016 Admissions]

Time : Three Hours Maximum Marks : 60

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Differentiate between Primary and Secondary wall.
2. List any two functions of collenchyama.
3. What is cork cambium ? Mention its function.
4. What is a duct ?
5. What is an amphicribral vascular bundle ?
6. What is procambium ? Mention its significance.
7. What is acclimatization ?
8. What is T-budding ?

(8 × 1 = 8)

Part B

Answer any **six** *questions.*
Each question carries 2 *marks.*

9. Differentiate between druses and raphides.
10. What are stinging hairs ?
11. What is apposition ? Mention its significance.
12. What is dendrochronology ?
13. List the morphological adaptations of epiphytes.
14. What is histogen theory ? Mention its significance.

Turn over

15. List any two functions of bast fibres.
16. What is somatic embryogenesis ? List its advantages.
17. What is whip grafting ?
18. What is polyploidy breeding ? Mention its advantages.

(6 × 2 = 12)

Part C

Answer any **four** *questions.*
Each question carries 4 *marks.*

19. Differentiate between Monocot stem and Dicot stem.
20. List the functions of parenchyma.
21. Write down the anatomical adaptations of hydrophytes.
22. Explain the anomalous secondary growth in *Bignonia*.
23. Illustrate compound layering with an example.
24. What is apogamy ? Add a note on its significance.

(4 × 4 = 16)

Part D

Answer any **two** *questions.*
Each question carries 12 *marks.*

25. With a labelled diagram, explain detailed account on morphological and anatomical adaptations of xerophytes.
26. Illustrate the primary structure of a monocot root.
27. Explain the structure, types and functions of sclerenchyma.
28. Give a concise objectives and procedure of pure line selection.

(2 × 12 = 24)