

E 3680



Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2022

Fourth Semester

Core Course—ANATOMY AND REPRODUCTIVE BOTANY OF ANGIOSPERMS

[Common for Botany Model and Model II]

(2013—2016 Admissions)

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. Define ecological anatomy.
2. List the functions of plasmodesmata.
3. What are pith rays ? Mention its function.
4. What is a hard wood ?
5. What is Rhytidome ?
6. What is Incompatibility ?
7. What is a marginal placentation ?
8. What is Apomixis ?

(8 × 1 = 8)

Part B

Answer any six questions.

Each question carries 2 marks.

9. Comment on 'evolutionary trend in plant anatomy'.
10. List the different types of cell wall thickening.
11. Mention any *four* metabolic byproducts.
12. Explain features of internal secretory tissues.

Turn over





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13. Mention the functions of cambium.
14. What are Knots ? Mention different types of it.
15. What is Periderm ? How does it formed ?
16. What is anemophilous pollination ? Mention any *two* adaptations.
17. What is Dichogamy ?
18. Describe the parts of a mature seed.

(6 × 2 = 12)

Part C

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

19. Describe submicroscopic structure of cell wall.
20. Give a brief account on various theories associated with shoot apex.
21. Comment on 'defects and seasoning of wood'.
22. Briefly describe pollen stigma interaction.
23. Compare the development of endosperm in monocots and dicots.
24. Explain the development of male gametophyte in angiosperms.

(4 × 4 = 16)

Part D

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

25. With a labelled diagram, explain epidermal tissue system in plants.
26. Illustrate anomalous secondary growth in Bougainvillea stem.
27. Illustrate megasporogenesis in detail.
28. Give a concise account of different types of dry indehiscent fruits.

(2 × 12 = 24)

