

TB144090B

Reg. No:

Name:

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017
(Supplementary – 2014 Admission)
SEMESTER IV - COMPLEMENTARY COURSE (BOTANY)
BOT4AAB - ANATOMY AND APPLIED BOTANY
(For Zoology)

Time: Three Hours

Maximum Marks: 60

PART A

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

1. What is Raphide?
2. What is the Monomer of Cellulose?
3. Define closed vascular Bundle.
4. What is Ring porous wood?
5. What are Velamen roots?
6. What is Hybridization?
7. Describe Air layering.
8. Name two plant growth regulators.

(8x1=8)

PART B

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

9. Comment on Cell membrane.
10. Describe the characteristics of a meristematic cell.
11. Write a note on simple tissues in plants.
12. Write down the arrangement of Vascular bundle in primary structure of Dicot Stem.
13. What are Hydathodes?
14. Write any four anatomical adaptations of Hydrophytes.
15. Write a note on Parthenocarpy and Parthenogenesis.
16. Comment on Interspecific and Interspecific Hybrids.
17. Write a note on quarantine.
18. Define Somatic embryogenesis.

(6x2=12)

PART C

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

19. Draw a labelled structure of plant cell.
20. Describe different patterns of thickening seen in xylem vessels.
21. Explain the role of Cambium in Budding and Grafting.
22. Describe the primary structure of Dicot root.
23. Write a note on ecological adaptations of Epiphytes and Halophytes.
24. Comment on Mutation Breeding.

(4x4=16)

PART D

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

25. Write an essay on Secondary thickening in Dicot stem with labelled Diagram.
26. Explain the morphological and anatomical adaptations of Xerophytes.
27. Write an essay on different selection methods in plant Breeding.
28. Describe different types of Grafting and Budding.

(2x12=24)