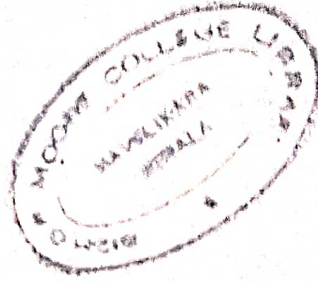


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L – 3605

Reg. No. :

Name :

First Semester B.Sc. Degree Examination, August 2021

First Degree Programme under CBCSS

Botany

Complementary Course for Zoology, Home Science and Biochemistry

**BO 1131 – MICROTECHNIQUE, ANGIOSPERM ANATOMY AND
REPRODUCTIVE BOTANY**

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

Draw Diagrams wherever necessary.

SECTION – A

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

1. Name a natural stain.
2. What are lenticels?
3. Give an example for secondary meristem.
4. Who proposed the Histogen theory?
5. What is quiescent centre?
6. Radial arrangement of vascular tissues is common in _____.
7. What are passage cells?

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8. Describe apical cell theory.
9. What are bulliform cells?
10. The radicle of the embryo develops into _____.

(10 × 1 = 10 Marks)

SECTION – B

II. Answer **any eight** of the following. Each carries **2** marks.

11. What are the components of FAA?
12. Give one example each for cytological and histological stains.
13. Explain the structure of vascular bundle in dicot stem.
14. Explain the classification of meristem based on its origin.
15. What are the functions of sclerenchyma?
16. Name the components of phloem.
17. What is meant by concentric vascular bundles?
18. What are tyloses?
19. What are annual rings?
20. What are synergids?
21. Describe double fertilization. What is its significance?
22. Explain the structure of pollen grain.

(8 × 2 = 16 Marks)

SECTION – C

III. Answer **any six** of the following not more than **120** words. Each question carries **4** marks.

23. Explain the structure and function of cambium.
24. What are the components of Carnoy's fluid? What is its use?
25. Differentiate ring porous wood and diffuse porous wood.
26. Give a brief account on secretory tissues.
27. Draw a labelled cellular diagram showing the anatomy of monocot leaf.
28. Explain the process of periderm formation in plants.
29. Differentiate vegetative cell and generative cell.
30. Explain the structure of dicot embryo with the help of diagram.
31. Explain megasporogenesis.

(6 × 4 = 24 Marks)

SECTION – D

IV. Write an essay on **any two** of the following. Each carries **15** marks.

32. Write an essay on the normal secondary thickening in dicot stem with a labeled cellular diagram.
33. Compare and contrast the primary structure of dicot and monocot stem.
34. Explain the structure of a mature anther with a labeled diagram.
35. Give a brief account of complex tissues. Add a note on types of vascular bundles.

(2 × 15 = 30 Marks)