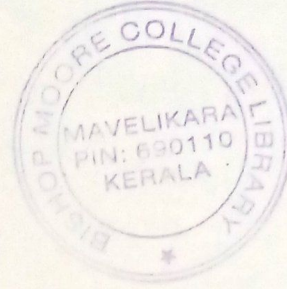


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Reg. No. : .....

Name : .....

**First Semester B.Sc. Degree Examination, January 2024**

**First Degree Programme under CBCSS**

**Botany**

**Complementary Course for Home Science, Zoology, Bio-chemistry**

**BO 1131 : MICROTECHNIQUES, ANGIOSPERM ANATOMY AND  
REPRODUCTIVE BOTANY**

**(2019 – 2021 Admission)**

Time : 3 Hours

Max. Marks : 80

**PART – A**

Very short answer questions (one word to minimum of two sentences).

Answer all questions. Each question carries 1 mark.

1. What is FAA?
2. What is Carnoy's formula?
3. Name a mechanical tissue.
4. What is aerenchyma?
5. What are lenticels?
6. Name a dehydrating agent used for histological preparations.
7. What is tapetum?

P.T.O.



8. What is nucellus?
9. What are trichomes?
10. What is protoxylem?

PART – B

(10 × 1 = 10 Marks)

Short Answer (Not to exceed one paragraph)

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

11. What is killing and fixation of plant tissues?
12. What is double Staining?
13. Briefly explain Histogen theory.
14. What are meristematic tissues?
15. What are palisade tissues? Explain its functions.
16. What are annual rings?
17. What is pollination?
18. Explain Double fertilization.
19. What is pollinium?
20. What is monosporic embryo sac? Give an example.
21. What is bicollateral vascular bundle?
22. What are bulliform cells?

(8 × 2 = 16 Marks)



## PART – C

Short Essay (Not to exceed 120 words)

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

23. Write short notes on :
  - (a) Safranin
  - (b) Haematoxyline
  - (c) Acetocarmine.
24. Explain the organisation to rootapex in monocots.
25. Briefly explain about complex tissues.
26. Comment on epidermal tissue systems.
27. Explain the classification of meristems based on position.
28. Differentiate heartwood and sapwood.
29. Explain extra stelar secondary growth in dicot stem.
30. Explain different types of ovules in plants.
31. With suitable diagram explain structure of dicot embryo?

(6 × 4 = 24 Marks)

## PART – D

Long Essay.

Answer any **two** questions. Each question carries **15** marks.

32. With suitable diagram explain anomalous secondary growth in Boerhaavia.
33. With suitable diagram explain the structure and functions of simple permanent tissues.
34. Briefly explain Microsporogenesis. Draw Diagrams.
35. What is embryosac in plants? Explain different types of embryosac with examples.

(2 × 15 = 30 Marks)