

TB245822W

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024

2021 ADMISSIONS SUPPLEMENTARY (SAY)

SEMESTER V - CORE COURSE (BOTANY)

BO5B08B18 - Anatomy, Reproductive Botany and Microtechnique

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

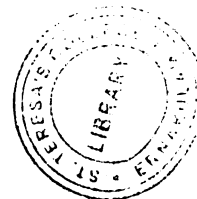
(10x1=10)

1. What are bulliform cells?
2. What are plasmodesmata?
3. What are casparian strips?
4. What is duramen?
5. What are knots?
6. What is aestivation?
7. What is helobial endosperm?
8. Describe tapetum?
9. In which group of plants do you find double fertilization? What is its significance?
10. What is the source of hematoxylin stain?
11. Name a dehydrating agent.
12. Name a temporary mounting medium.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)



13. Give the different types of stomata.
14. Describe oil glands in citrus.
15. Briefly explain the different types of pits.
16. Explain the components of the ground tissue system.
17. Explain the process of secondary growth in dicot roots.
18. Analyze the importance of embryology in plant sciences.
19. Describe a mature orthotropous ovule with a diagram.
20. What type of endosperm development is observed in coconut? Explain.
21. write on rotary microtome.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Write a detailed account on the complex tissue studied by you.
23. With the help of diagrams explain secondary growth in Boerhaavia stem.
24. With illustrations, describe the structure of a mature anther.
25. List out the procedure for the preparation of a double stained permanent section.