

QP CODE: 22100057



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY
2022**

Fifth Semester

**CORE COURSE - BO5CRT05 - ANATOMY, REPRODUCTIVE BOTANY AND
MICROTECHNIQUE**

(Common to B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring and Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology & B.Sc Botany and Biotechnology Model III Double Main)

2017 Admission Onwards

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Time: 3 Hours

Max. Marks : 60

Part A

Answer any ten questions.

Each question carries 1 mark.

1. What is a microfibril?
2. How does growth of cell wall take place in plants?
3. What is ground meristem?
4. What is a concentric vascular bundle?
5. Define lenticel.
6. What are annual rings?
7. Write short notes on pollinium.
8. Give a note on sexine.
9. What is chalaza?
10. What is egg apparatus?
11. What are the two different types of embryo sacs found in angiosperms?
12. What is the significance of DPX?

(10×1=10)

Part B



*Answer any **six** questions.
Each question carries **5** marks.*

13. What are simple pits? Write a brief account on the structure of a simple pit.
 14. Make a brief account on reserve food products.
 15. Describe the structure of phloem.
 16. Explain the structure of dicot leaf with a neat labelled diagram.
 17. By means of brief notes and examples, distinguish between porous and non porous wood.
 18. Write note on the parts of a flower.
 19. Write a short note on endosperm. Write down its functions.
 20. Explain polyembryony and its significance.
 21. Explain the chemistry behind killing and fixing methods in botanical specimen preparation.
- (6×5=30)

Part C

*Answer any **two** questions.
Each question carries **10** marks.*

22. Explain the structure of different types of stomata seen in Dicots. Add a note on functions of stomata.
 23. With the help of a labelled diagram explain the anomalous secondary growth in Bignonia.
 24. Write a brief account on pollination mechanisms and agents of pollination.
 25. What are stains? Explain various staining procedures usually employed in botanical microtechnique.
- (2×10=20)

