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19102456

QP CODE: 19102456

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Reg No : .....

Name : .....

**BSc DEGREE (CBCS ) EXAMINATION, OCTOBER 2019**

**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

198C1702

Maximum Marks: 60

Time: 3 Hours

**Part A**

*Answer any ten questions.*

*Each question carries 1 mark.*

1. Mention the functions of plasmodesmata?
2. How does growth of cell wall take place in plants?
3. Write the name of the cell in which raphides occur.
4. What is metaxylem?
5. What is bundle cap in dicot stem?
6. What is alburnum?
7. Write short notes on tapetum.
8. What is germ pore?
9. What is aril?
10. What is double fertilization?
11. What is nuclear endosperm?
12. Name a vital stain.

(10×1=10)



### **Part B**

*Answer any six questions.*

*Each question carries 5 marks.*

13. Write an account on the growth structure of plant cell wall.
14. Define meristem. Briefly write their characteristic features.
15. Make a brief account on hypodermis in stems.
16. Briefly explain the secondary growth in dicot root.
17. By means of brief notes and examples, distinguish between diffuse porous and ring porous wood.
18. Briefly describe the different parts of a flower.
19. Explain the structure of a mature embryo sac.
20. Give a brief account of 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. Give an account of structure and function of xylem.
23. Describe the process of anomalous secondary growth in Boerhavia stem.
24. Explain Peperomia type of embryo sac development.
25. Give an account of mounting and mounting media.

(2×10=20)

