

TM242662E

8.4  
Reg. No : .....

Name : .....

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024  
2023 ADMISSIONS REGULAR  
SEMESTER II - CORE COURSE BOTANY  
BO2C05TM20 - Plant Anatomy, Developmental Biology and Horticulture

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Explain the importance of floral anatomy in solving taxonomic problems.
2. Explain the anatomy of seeds.
3. Describe the floral anatomy of sepals and petals.
4. Briefly explain the formation of nerula stage.
5. Explain the stages in early animal development.
6. Explain " Pollen kit".
7. What is polyembryony?
8. What is the difference between edges and hedges?
9. Explain the importance of pruning in Bonsai.
10. Give an account on horticultural therapy.



Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Briefly explain the role of anatomy in Systematics.
12. Describe the importance of plant fibres.
13. Write brief notes on lignification patterns of xylem.
14. Briefly describe the different cleavage patterns.
15. Briefly explain the types of apomixis with examples.
16. Describe the various garden adornments.
17. Describe any four styles of Bonsai.
18. Explain the primary methods of aquaponic growing.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Describe the vascular cambium and cork cambium, its structure and functions.
20. Briefly describe different nodal patterns with suitable diagrams. Comment on their evolutionary trends.
21. Explain the structure of ovule with suitable diagrams. Add a note on the development of female gametophyte.
22. Discuss the preparation of different types of composts and their advantages.