

QP CODE: 20000766



Reg No : .....

Name : .....

**MSc DEGREE (CSS) EXAMINATION , NOVEMBER 2020**

**Second Semester**

M Sc BOTANY

**CORE - BY010201 - PLANT ANATOMY, DEVELOPMENTAL BIOLOGY AND  
HORTICULTURE**

2019 Admission Onwards

68DAF18E

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

Answer any **eight** questions.

Weight **1** each.

1. Describe the origin of branches in angiosperms.
2. Differentiate between stratified and non stratified cambium.
3. Distinguish between compression wood and tension wood.
4. What are the possible functions of abscission layers?
5. Explain appendicular theory.
6. Briefly explain the early stages of development in an organism.
7. Explain Double fertilization.
8. Etymology of horticulture. Give a short description.
9. Distinguish between breeder and foundation seeds.
10. Comment on the selection of plants for making bonsai.

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

Answer any **six** questions.

Weight **2** each.

11. Distinguish between the structure and distribution of secretory trichomes in Drosera and Nepenthes.
12. Describe origin and function of cambium in monocots.
13. With the help of suitable diagrams compare and contrast the anatomy of monocot and dicot seeds.
14. Write a note on the anatomical characters that are helpful in plant systematics.





15. Briefly explain mosaic and regulative development.
16. Give detailed account of apomixis.
17. Write a short essay on garden adornments.
18. Comment on vermicomposting.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

Answer any **two** questions.

Weight **5** each.

19. Describe extrastelar secondary growth in plants.
20. Compare and contrast anatomy of dorsiventral leaf and isobilateral leaf with the help of suitable diagrams.
21. Explain organogenesis and transition to flowering in plants.
22. Write an essay on: artificial propagation

(2×5=10 weightage)

