

QP CODE: 22000475



Reg No	:	
Name	:	

MSc DEGREE (CSS) EXAMINATION , JANUARY 2022

Second Semester

M Sc BOTANY

CORE - BY010201 - PLANT ANATOMY, DEVELOPMENTAL BIOLOGY AND HORTICULTURE

2019 Admission Onwards 952AFC39

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

Answer any **eight** questions.

Weight **1** each.

- 1. Explain various changes occur in the shoot apex during leaf development.
- 2. Differentiate between apotracheal parenchyma and paratrcheal parenchyma.
- 3. What are the reasons for the durability of teak wood?
- 4. Classify the stomatal complexes.
- 5. What are the different methods of fruit dehiscence?
- 6. Briefly explain the following a) Cell fate b) Commitment c) Potency.
- 7. Differentiate between Xenia and Metaxenia.
- 8. Define pomology.
- 9. What is meant by composting, write a short note on its significance.
- 10. What are the advantages of aquaponics.

(8×1=8 weightage)

Part B (Short Essay/Problems)

Answer any **six** questions.

Weight **2** each.

- 11. Write a note on secretory tissues.
- 12. Give an account of mechanical tissues in plants.
- 13. By mentioning proper examples explain the role of floral anatomy in taxonomy.



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- 14. Mention the application of anatomy in pharmacognosy.
- 15. Explain the mechanism of differentiation.
- 16. Explain Microgametogenesis.
- 17. Write a short note on: roof garden and vertical garden.
- 18. Describe cultivation process of orchids.

(6×2=12 weightage)

Part C (Essay Type Questions)

Answer any **two** questions.

Weight **5** each.

- 19. Descibe the extrastelar secondary growth in plants.
- 20. With suitable diagram, describe nodal anatomy. Explain nodal evolution.
- 21. Explain floral meristem and floral development in plants.
- 22. Write an essay on: artificial propagation.

(2×5=10 weightage)

