

D 93385

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2020**

(CBCSS)

Botany

**BOT 1C 03—ANGIOSPERM, ANATOMY, ANGIOSPERM EMBRYOLOGY, PALYNOLOGY
AND LAB TECHNIQUE**

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

1. In cases where choices are provided, students can attend **all** questions in each section.
2. The minimum number of questions to be attended from the Section / Part shall remain the same.
3. There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.

Part A

*Answer any **four** questions.
Each question carries 2 weightage.*

1. Explain the process of maceration
2. Give an account on mounting media.
3. Describe aeropalynology.
4. Write an account on the unidirectional activity of cambium.
5. Describe the process of fertilization in a dicot embryo sac.
6. Explain the role of cambium in wound healing and grafting.
7. Explain with diagram the structure of a typical monocot embryo.

(4 × 2 = 8 weightage)

Part B

*Answer any **four** questions.
Each question carries 3 weightage.*

8. Give an account on in *vitro* pollination and fertilization.
9. Explain the tools used in deducing microscopic measurements.
10. Describe the working of a rotary microtome. Mention the advantages.

Turn over

11. Give an account on whole mounts. Describe the methodology.
12. Explain the process of megasporogenesis.
13. Explain with diagram the anatomy of a centric leaf.
14. With neat diagrams give an account on nodal anatomy.

(4 × 3 = 12 weightage)

Part C

*Answer any two questions.
Each question carries 5 weightage.*

15. Write an essay on the principle and methods of killing and Fixing.
16. With suitable examples explain the pollen morphology and its application. Add a note on evolution.
17. What is anther culture? Explain the procedure. Add a note on its applications.
18. Describe the anomalous secondary growth on storage roots.

(2 × 5 = 10 weightage)