



K26P 1171

Reg. No. :

Name :

Second Semester M.Sc. Degree (CBCSS – OBE – Reg./Supple./Imp.)

Examination, April 2026

(2023 Admissions Onwards)

BOTANY

MSBOT02C07 : Angiosperm Anatomy, Embryology and Micro Technique

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** questions. **Each** question carries **3** marks.

1. Define meristem and classify the types with examples.
2. What are trichomes ? Mention their biological roles.
3. Distinguish between open and closed vascular bundles.
4. Write short notes on double fertilization.
5. Explain the term "pollen viability" and its importance.
6. What are the basic principles of staining in histological studies ? (5×3=15)

PART – B

Answer **any three** questions. **Each** question carries **6** marks.

7. Describe different types of endosperm formation.
8. Explain the theory of apical meristem organization.
9. Discuss mechanisms of self- and cross-pollination in angiosperms.
10. Explain various dehydration methods used in microtechnique.
11. Discuss the role and structure of sieve elements in phloem. (3×6=18)

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PART – C

Answer **any three** questions. **Each** question carries **9** marks.

12. Discuss the organization and function of vascular cambium in secondary growth.
13. Write an essay on Research prospects in plant anatomy.
14. Describe in detail the process of megasporogenesis with diagrams.
15. Explain the methods of histochemical localization of enzymes.
16. Write an essay on the wood anatomy of any 2 economically important trees you studied with illustrations. (3×9=27)

