



K26P 1170

Reg. No. :

Name :

Second Semester M.Sc. Degree (C.B.C.S.S. – O.B.E. – Reg./Supple./Imp.)
Examination, April 2026
(2023 Admissions Onwards)
BOTANY
MSBOT02C06 : Palaeobotany, Palynology and Evolution

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** questions.

(5×3=15)

1. Differentiate between mega and micro fossils.
2. What is gene duplication ? Briefly mention its types.
3. What is pollen stratigraphy ?
4. Define exine.
5. What is genetic drift ?
6. What is speciation ?

PART – B

Answer **any three** questions.

(3×6=18)

7. Discuss the importance of palaeobotany in understanding plant evolution.
8. Explain the basic structure and development of pollen grains.
9. Write a note on the role of palynology in forensic investigations.
10. Discuss the mechanisms of reproductive isolation in evolution.
11. Explain the importance of spores and pollen in stratigraphic correlation.

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PART – C

Answer **any three** questions.

(3×9=27)

12. Describe the methods used for studying fossil plants and their significance.
13. Discuss the role of palynology in reconstructing past climates and vegetation.
14. Explain the different types of speciation with suitable examples.
15. Describe the fossil evidence supporting the evolution of seed plants.
16. Discuss the major evolutionary processes responsible for the origin of biodiversity.