



K24P 1061

Reg. No. :

Name :

**Second Semester M.Sc. Degree (C.B.C.S.S. – OBE-Regular)
Examination, April 2024
(2023 Admission)
BOTANY**

MSBOT02C06 : Paleobotany, Palynology and Evolution

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** questions. **Each** question carries **3** marks. **(5×3=15)**

1. Compare homology and analogy with suitable examples.
2. Describe briefly pollen allergy.
3. What are major and micro fossils ?
4. Comment on genetic drift.
5. Describe UPGMA.
6. Write notes on fossil angiosperms.

PART – B

Answer **any three** questions. **Each** question carries **6** marks. **(3×6=18)**

7. What are the different tree building algorithms ?
8. Describe the role of mutation in evolution.
9. Write brief notes on Lepidocarpon lomaxi.
10. Describe briefly the role of palynology in medicine.
11. Briefly describe the evolution of pollination mechanisms.

P.T.O.



PART – C

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

(3×9=27)

12. What are fossils ? Explain different methods of fossilization.
13. Write an essay on the importance of palynology.
14. What is speciation ? Critically evaluate the role of various isolation mechanism on the evolution of plants.
15. Briefly explain the application of molecular phylogeny.
16. Add notes on Geological time scale.

