K25P 3527

Reg. No. : .....

Name : .....

I Semester M.Sc. Degree (C.B.C.S.S. – O.B.E.-Reg./Supple./Imp.) Examination, October 2025
(2023 Admission Onwards)
BOTANY
MSBOT01C03 : Bryophytes, Pteridophytes and Gymnosperms

Time : 3 Hours Max. Marks : 60

PART – A

Answer **any five** questions. **(5×3=15)**

1. Bring out the contributions of Dr. Shiv Ram Kashyap to the field of Bryology.
2. Discuss the distinguishing characteristics of order Coniferales.
3. Briefly bring out the various strategies involved in the conservation of Pteridophytes.
4. Describe the habitat diversity of bryophytes.
5. Bring out the role of heterospory in the evolution of pteridophytes.
6. Comment on the ethnic uses of gymnosperms.

PART – B

Answer **any three** questions. **(3×6=18)**

7. Discuss the affinities of the order Calamitales.
8. Comment on the role of bryophytes as ecological/pollution indicators.
9. Compare the reproductive biology of the order Gnetales with Pteridospermales.
10. Discuss Pteridophyte Phylogeny Group (2016) and its merits and demerits.
11. Bring out the contributions of Birbal Sahni and Bharadwaj in gymnosperm studies in India.

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P.T.O.

PART – C

Answer **any three** questions. **(3×9=27)**

12. Discuss the ecological significance of bryophytes in soil formation and conservation.

13 . Write a brief account about the distribution of pteridophytes in India with reference to Western Ghats.

14. Discuss the classification of gymnosperms by Christenhuz et .al (2011) and explain its significance in the phylogeny of gymnosperms.

15. Bryophytes are commonly referred to as the amphibians of the plant kingdom. Substantiate.

16. Describe the adaptations of ferns to survive in a terrestrial habitat.

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