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FIRST SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION DECEMBER 2019

(CBCSS)

Botany

BOT 10 01—PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS (2019 Admissions)

Time: Three Hours

Maximum: 30 Weightage

Part A

Answer any four questions.

Each question carries 2 weightage.

- 1. Explain the various terms used to refer life cycle patterns in Algae.
- 2. Describe the range of thalius structure in Rhodophyceas.
- 3. Give an account on the structure and fossil history of any two bryophytes belonging to different groups.
- 4. Discuss the role of Bryophytes as indicators of environmental pollution.
- 5. Describe the stelar organization in Psilotales, Lycopodiales, Isoetales and Equisetales. Draw suitable diagrams.
- 6. Mention the contributions of Indian Pteridologists.
- 7. List out the general characters of Pteridospermales and Pentoxylales.

 $(4 \times 2 = 8 \text{ weightage})$

Part B

Answer any four questions. Each question carries 3 weightage.

- 8. Describe the mode of reproduction in Bacillarophyta.
 - 9. Explain the relationship and evolutionary trends in Phaeophyta
- 10. Describe vegetative reproduction and perennation in liverworts and mosses, citing examples.
- 11. Write an account on apogamy, apospory and parthenogenesis in Pteridophytes.
- 12. Outline the classification of Pteridophytes by Holttum.

Turn over

- 13. Give an account on the distribution of Gymnosperms in India
- 14. Bring out the anatomical evolution in Gymnosperms.

 $(4 \times 3 = 12 \text{ weightage})$

Part C

Answer any two questions.

Each question carries 5 weightage.

- 15. What are the criteria used in the classification of Algae? Write an account on Fritsch's classification with important characters of different classes.
- 16. Write an essay on the evolution of sporophytic generation in Bryophytes with the help of neat labelled diagrams.
- 17. Write a detailed account of the development and evolutionary trends in the gametophytes of Pteridophytes.
- 18. Discuss the economic importance of Gymnosperm in detail.

 $(2 \times 5 = 10 \text{ weightage})$