

FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2022

(CBCSS)

Botany

BOT 1C 01—PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Write Short Answers any *four* questions :

- 1 Name a plant called as living fossil. Why is it called so ?
- 2 Explain Heterospory.
- 3 Write about a fossil pteridophyte.
- 4 Explain Parthenogenesis.
- 5 Write any *four* pigments in Algae.
- 6 Explain algal bloom.
- 7 Write about an economically important Bryophyte.

(4 × 2 = 8 weightage)

II. Write Short Questions Answer any *four* questions :

- 8 Explain the sexual reproduction in a member of Rhodophyta.
- 9 Write a note on different types of life cycles in Algae.
- 10 Explain important features of Osmundales.
- 11 Write an account on contribution of Indian Pteridologists.
- 12 Write about reproduction in Gnetum.
- 13 Describe evolution of sporophytes in Bryophytes.
- 14 Explain economic importance of Pteridophytes.

(4 × 3 = 12 weightage)

Turn over

III. Write Essay on any *two* questions :

- 15 Explain the structure and evolution of stele in Pteridophytes.
- 16 Write an account on morphological features and reproduction in Marsileales and
- 17 Write an account on thallus structure and reproduction in Chlorophyta.
- 18 Give an account on Chamberlain's system of classification of Gymnosperms.

(2 × 5 = 10)