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(Pages : 2)

Name.....

Reg. No.....

580039

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2024**

(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 Explain asexual reproduction in Bacillariophyta.
- 2 Write about Gsmunda tassel.
- 3 Write about pigments in Rhodophyta and Phaeophyta.
- 4 Explain heterospory.
- 5 Write about sexual reproduction in Sphagnales citing an example.
- 6 Write about economic importance of Bryophytes.
- 7 Write about two economically important gymnosperms.

(4 × 2 = 8 weightage)

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

- 8 Write a note on Ophioglossales
- 9 Describe different types of life cycles in Algae.
- 10 Write about anatomy and sexual reproduction in Anthocerotales citing an example.
- 11 Explain importance of algae in industry and soil fertility.
- 12 Write about characteristic features of Gnetales.
- 13 Explain the reproduction in Polytrichales.
- 14 Write about economic importance of Pteridophytes.

(4 × 3 = 12 weightage)

Turn over

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III. Write Essay on any *two* questions :

- 15 Write an account on reproduction in Gleicheniales and Equisetales.
- 16 Explain the structure and reproduction in Rhodophyta.
- 17 Write about the morphology, anatomy and reproduction in Ephedrales.
- 18 Describe the origin and evolution of gametophytes and sporophytes in Bryophytes examples.

(2 × 5 = 10 weig