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(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2023**

(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. Each question carries 2 weightage.
- 1 Name two members of Rhodophyta.
 - 2 Write about stele in Equisetum.
 - 3 Write a note on importance of flagella in algae.
 - 4 Explain sporangium in Psilotales.
 - 5 Write a note on parthenogenesis and Apogamy.
 - 6 Write about any *two* economically important Gymnosperms.
 - 7 Name *four* pigments in algae.
- (4 × 2 = 8 weightage)
- II. Write Short questions. Answer any *four* questions. Each question carries 3 weightage.
- 8 Explain heterospory and seed habit in Pteridophytes.
 - 9 Give an account on reproduction in Marchantiales.
 - 10 Give an account on reproduction in Salviniiales.
 - 11 Explain how algae effect soil quality and water quality.
 - 12 Write a note on contribution of Indian Pteridologists.

Turn over

13 Give an account on sexual reproduction in Funariales.

14 Explain the unique morphological features of Welwitschiales and Ginkgoales.

(4 × 3 = 12)

III. Write Essay on any *two* questions. Each question carries 5 weightage.

15 Give an account on characteristic features of Cyatheales and Marseliales.

16 Write an account on Geological time scale. Explain the characteristic features of Pteridospermales and Glossopteridales.

17 Describe the thallus structure and reproduction in Bacillariophyta.

18 Explain origin and evolution of sporophytes in Bryophytes.

(2 × 5 = 10)