

B.Sc. (CBCS Pattern) Sem-I
BO-02 - Botany Paper-II : Plant Diversity-II
(Bryophyta, Pteridophyta, Gymnosperm and Paleobotany)

P. Pages : 2

Time : Three Hours



GUG/W/22/11543

Max. Marks : 50

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- Notes : 1. All questions are compulsory & carry equal marks.
2. Draw well labelled diagram wherever necessary.

1. Write notes on :

- a) Economic importance of Bryophyta. 5
- b) Male and Female sex organs of Funaria. 5

OR

Write short notes on :

- c) General characters of Bryophyta. 2½
- d) Classification of Bryophyta By G.M. Smith. 2½
- e) External morphology of Riccia thallus. 2½
- f) L.S. of Funaria capsule (Diagram only) 2½

2. Write notes on:

- a) Classification of pteridophyta by G.M. Smith. 5
- b) Economic importance of Pteridophytes. 5

OR

Write short notes on :

- c) General characters of pteridophytes. 2½
- d) Siphonostele. 2½
- e) External morphology of Marsilea. 2½
- f) Rhynia : External morphology. 2½

3. Write notes on:

- a) Economic importance of Gymnosperm. 5
- b) Cycas male cone. 5

OR

Write short notes on:

- c) Classification of Gymnosperm by Sporne (1965). 2½
- d) Coralloid root in Cycas. 2½
- e) Pinus: External morphology. 2½
- f) General characters of Gymnosperm. 2½

4. Write notes on :

- a) Theories of fossilization. 5
- b) Types of fossils. 5

OR

Write short notes on:

- c) Glossopteris leaf. 2½
- d) Mesozoic era. 2½
- e) Cycadeoidea : External morphology. 2½
- f) Paleozoic era. 2½

5. Write **any ten** questions in one or two lines only (Diagrams are not necessary). **10**

- a) Tuberculated rhizoids.
- b) Peat
- c) Operculum.
- d) Protostele
- e) Pith
- f) Sporocarp
- g) Sago-palm
- h) Pycnoxylic wood
- i) Winged pollen
- j) Living fossil
- k) Father of Indian Paleobotany
- l) Epoch.
