

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

P. Pages : 2

Time : Three Hours



GUG/W/23/11543

Max. Marks : 50

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

1. Write a detail account on:

- a) Sexual reproduction in Riccia. 5
- b) General characters of Bryophytes. 5

OR

Write short notes on:

- c) Economic importance of Bryophyta. 2½
- d) T.S. of Riccia Thallus (Diagram only). 2½
- e) Classification of Bryophytes by GM smith (lass) outline only. 2½
- f) L.S. of Funaria capsule (Diagram only). 2½

2. Write a detail account on:

- a) General characters of pteridophytes. 5
- b) Types of stele in pteridophytes with suitable example. 5

OR

Write short notes on:

- c) Rhynia: External Morphology. 2½
- d) Equisetum : L.S. of strobilus (Diagram only). 2½
- e) Marsilea: HLS of sporocarp (Diagram only). 2½
- f) Economic importance of pteridophytes. 2½

3. Write a detail account on:

- a) General characters of gymnosperm. 5
- b) Structure of Cycas ovule. 5

OR

Write short notes on:

- c) Classification of gymnosperm by Sporne (Outline only). 2½
- d) Economic importance of gymnosperm. 2½
- e) External morphology of Cycas. 2½
- f) Pinus female cone. 2½

4. Write a detail account on:

- a) Types of fossils. 5
- b) Cycadeoidea. 5

OR

Write short notes on:

- c) Mesozoic. 2½
- d) Replacement theory. 2½
- e) Contribution of Birbal Sahni. 2½
- f) Glossopteris leaf (Diagram only). 2½

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

- a) Monoecious.
- b) Liverworts.
- c) Trabeculae.
- d) Water fern.
- e) Tuber.
- f) Horsetail.
- g) Naked seed plants.
- h) Coralloid roots.
- i) Yellow shower.
- j) Epoch.
- k) Miocene.
- l) Paleobotany.
