

Bachelor of Science (B.Sc.) (CBCS Pattern) First Semester
BO-02 - Botany Paper-II : Plant Diversity-II
(Bryophyta, Pteridophyta, Gymnosperm and Paleobotany)

P. Pages : 2

Time : Three Hours



GUG/W/18/11543

Max. Marks : 50

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

1. Write notes on :

- a) Sporophyte of Riccia. 5
b) Gametophyte of Anthoceros. 5

OR

Write short note

- c) General morphological characteristics of Bryophyta. 2½
d) Funaria sporophyte (only diagram). 2½
e) Economic importance of Bryophytes. 2½
f) Classification of Bryophytes proposed by G.M. Smith. 2½

2. Write notes on :

- a) Types of stele found in pteridophyta. 5
b) Heterospory and seed Habit. 5

OR

Write short notes on :-

- c) Rhynia sporangium. 2½
d) Selaginella Strobilus. 2½
e) Equisetum cone. 2½
f) Marsilea sporocarp. 2½

3. Write notes on :

- a) General characteristic of Gymnosperm. 5
b) Megasporophyll of Cycas. 5

OR

Write short notes on :

- c) Coralloid root in Cycas. 2½
- d) Male cone of Pinus. 2½
- e) Pinus ovule. 2½
- f) Economic importance of Gymnosperm. 2½

4. Write notes on : -

- a) Process of fossilization. 5
- b) Cycadeoidea. 5

OR

Write short notes on :-

- c) Impression. 2½
- d) Glossopteris leaf (Diagram only). 2½
- e) Mesozoic era. 2½
- f) Petrification. 2½

5. Write **any ten** of the following in one or two sentence only (Diagram is not necessary). 10

- a) Mucilage cavity.
- b) Tuberculated Rhizoids.
- c) Operculum.
- d) Telome.
- e) Heterophyllum.
- f) Horse tail.
- g) Sago palm.
- h) Apophysis.
- i) Scale leaves.
- j) Compression.
- k) Fossil fuel.
- l) Jurassic park.
