

MJ-514

M.Sc. Botany

1st Semester Examination, July-Dec., 2021

Paper - IV

Bryophyta, Pteridophyta and Gymnosperm

Time : Three Hours] [Maximum Marks : 80

[Minimum Pass Marks : 16

Note : Answer from all the Units and Question No. 1 is compulsory. All questions carry equal marks.

1. Write notes on the following :

(a) Thallus structure of Anthoceros

(b) Seed habit in Pteridophyta

~~(c)~~ Economic importance of Gymnosperms

(d) Glossopteridales

Unit-I

2. Give detailed account of polytrichales.

OR

Write short notes on the following :

- ~~(a)~~ Brief account of sphagnales
(b) Distribution of bryophyta

Unit-II

3. Give detailed account of pteropsida.

OR

Write short notes on the following :

- (a) Characteristic features of sphenopsida
(b) Fossil Pteridophyta

Unit-III

4. Write general characters of gymnosperms mentioning diversity.

OR

Write short notes on the following :

- (a) Origin and evolution of gymnosperm stele
(b) Gymnosperm distribution in India

(3)

Unit-IV

5. Give general account of gnetales.

OR

Write short notes on the following :

(a) Ginkgoales

(b) Coniferales
