

2025

(FYUGP)

(2nd Semester)

BOTANY

(MAJOR)

Paper : BCC-04

**[Archegoniate (Bryophytes, Pteridophytes
and Gymnosperm)]**

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

***The figures in the margin indicate full marks
for the questions***

- 1. Give a general account on the classification
and characteristics of bryophytes. 7+8=15**

Or

**Define alternation of generation. Describe in
detail the alternation of generation in
Archegoniates with suitable schematic
diagram. 2+13=15**

2. Write an account on the reproduction of *Marchantia* with a labelled diagram. 15

Or

Write short notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Reproduction of sphagnum
- (b) Ecological and economic importances of bryophytes with special reference to sphagnum

3. Describe the anatomy and reproduction of *equisetum* with labelled diagrams. 15

Or

Write notes on any *two* of the following :

$7\frac{1}{2} \times 2 = 15$

- (a) Heterospory and seed habit
- (b) Telome theory
- (c) Anatomical characteristics of *selaginella*

4. Describe with suitable diagram the reproduction of *Pinus*. 15

Or

Write notes on any *two* of the following :

$7\frac{1}{2} \times 2 = 15$

- (a) Ecological and economic importance of gymnosperms
- (b) Morphology and anatomy of *Cycas*
- (c) General characteristics of gymnosperms

(3)

5. Define paleobotany. Discuss in detail the geological time scale with suitable examples.

2+13=15

Or

Write short notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) General account of dominant fossil flora of different ages
- (b) Types of fossil and their formation

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