

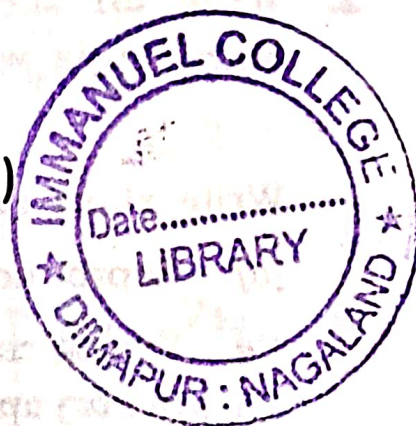
**2025**

**( 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**

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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

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( Continued )

( 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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