

**Bs/BCC-11**

**2025**

**( FYUGP )**

**( 5th Semester )**

**BOTANY**

**( MAJOR )**

Paper Code : BCC-11

**( Reproductive Biology of Angiosperms )**

*Full Marks : 75*

*Pass Marks : 40%*

*Time : 3 hours*

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

1. Explain the term "flower is a modified shoot".  
Describe the scope of embryology in detail.

8+7=15

*Or*

What are stamens? Describe the various  
features of a stamen with suitable diagrams.

3+12=15

**26L/143**

**( Turn Over )**



( 2 )

2. Describe the types of ovules with suitable diagrams. Write a note on megasporogenesis and its types. 6+9=15

Or

Describe the structure of an embryo sac with neatly labelled diagram. Discuss the various types of embryo sacs. 7+8=15

3. What is pollination? Discuss the various events in pollination leading to double fertilization and development of embryo and endosperm. 2+13=15

Or

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

- (a) Types of endosperms
- (b) Polyembryony and apomixis

4. Write short notes on any *three* of the following : 5×3=15

- (a) Modifications in stigma surface
- (b) Gametophytic and sporophytic self-incompatibility
- (c) Interspecific self-incompatibility
- (d) In vitro fertilization



( 3 )

5. Discuss the process of microsporogenesis and microgametogenesis with suitable diagrams. 15

Or

Write notes on any *two* of the following :

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

- (a) Dicot and monocot embryo
- (b) Seed dispersal mechanisms and its importance
- (c) Embryo-endosperm relationship

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