

Roll No. ....

41212

**B. Sc. (Pass Course) 4th Semester  
Examination – May, 2019**

**BOTANY - II (PLANT EMBRYOLOGY)**

**Paper : BOT. 42**

*Time : Three hours ] [ Maximum Marks : 40*  
*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory.*

1. (a) What is Precocious germination of pollen grain ? 1
- (b) Define Palynology. 1
- (c) Define Heterostyly. 1
- (d) What is Herkogamy ? 1
- (e) What is an Ovule ? 1

41212

- (f) Where in flower ovules are located ? 1
- (g) What is an Albuminous Seed ? 1
- (h) What is Eucarp ? 1

**UNIT – I**

2. Explain that Flower is a modified shoot. 8
3. (a) Describe the internal structure of a mature Anther. 6
- (b) Give a diagram showing different layers of Pollen Wall. 2

**UNIT – II**

4. What is Pollination ? Describe their types with importance in Evolution. What promotes Cross Pollination ? 8
5. Describe the process of Male Gametophyte development. 8

**UNIT – III**

6. Describe different types of Embryo Sacs. 8

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7. What is double fertilization ? Give its importance.  
Answer with relevant diagrams.

**UNIT – IV**

8. Define a Zygote. How is it converted into Embryo ?
9. What is a Fruit ? Describe its different types.

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