



K19P 0260

Reg. No. : .....

Name : .....

**II Semester M.Sc. Degree (Reg./Suppl./Imp.) Examination, April 2019  
(2014 Admission Onwards)**

**BOTANY**

**BOT 2C05 : Embryology, Palynology and Plant Breeding**

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following.

(2×8=16)

1) Give an account on the structure and function of wall layers in Anther.

OR

2) Describe in detail the types and evolution of ovules.

3) Explain the significance of Pollen-Pistil interaction in plants.

OR

4) Give an account on development of Dicot and Monocot Embryo.

II. Answer **any two** of the following :

(2×6=12)

5) a) Tapetum.

b) Pollen allergies.

c) Nutrition of embryo.

6) a) Synergids.

b) Double fertilization.

c) Endosperm Haustoria.

7) a) Suspensor.

b) Polyembryony.

c) Dynamics of fruit growth.

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III. Answer **any six** of the following :

(6×3=18)

- 8) Pollen embryos.
- 9) Stigma protein.
- 10) Apospory.
- 11) Evidman
- 12) Nutritive value of Honey.
- 13) Aeropalynology.
- 14) Patent laws.
- 15) Gene banks.

IV. Answer **any seven** of the following :

(7×2=14)

- 16) Role of Tapetum.
- 17) Male sterility.
- 18) Synergids.
- 19) Filiform apparatus.
- 20) Haustoria.
- 21) Aerospore survey.
- 22) Adaptation of Pollen grains.
- 23) Tilling.
- 24) Mutation breeding.
- 25) Farmers rights.