



K21P 0741

Reg. No. :

Name :

II Semester M.Sc. Degree (CBSS – Reg./Supple. (Including Mercy Chance)/Imp.)
Examination, April 2021
(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) Explain in detail the development and types of ovules.
OR
- 2) Give an account on the fertilization in Plants.
- 3) Give an account on the structure and function of suspensor.
OR
- 4) Describe the Recent advances in Palynological studies.

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

(2×6=12)

- 5) a) Hybridization
b) Rural gene banks
c) Types of germplasm collection.
- 6) a) Pest resistance
b) NGO's
c) Genetically Engineered Crops.
- 7) a) Quarantine
b) Pollen analysis of Honey
c) Floral Biology.

1
2
3
1
2
3
1
2
3

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

(6×3=18)

- 8) Tapetal layers
- 9) Pollen embryos
- 10) Polyembryony

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- 11) Parthenocarpy
- 12) Palynology
- 13) Application of Pollen morphology
- 14) Seed certification
- 15) Plant breeding Institutes.

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

(7×2=14)

- 16) Megaspore dyad
- 17) Antipodals
- 18) Stigma proteins
- 19) Endosperm Haustoria
- 20) Apospory
- 21) Adaptation of Pollen grains
- 22) PKK hair contribution
- 23) Germplasm
- 24) Crop improvement
- 25) Rights of farmers