



16

K22P 0152

Reg. No. :

Name :

II Semester M.Sc. Degree (C.B.S.S.– Reg./Supple./Imp.)
Examination, April 2022
(2018 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 the types and role of tapetum in pollen development.

OR

2) Explain the current outlook of double fertilization.

3) Describe the types and classification of embryo.

OR

4) Write an essay on methods of plant breeding.

II. Answer any two of the following : (2×6=12)

5) a) Aeropalynology. 1

b) Rural gene banks. 2

c) Achievements of plant breeding institutes. 3

6) a) Pollen allergy. 1

b) Endosperm haustoria. 2

c) Structure of pistil. 3

7) a) Define hybridization. 1

b) Seed certification. 2

c) Plant breeders right. 3

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III. Answer any six of the following : (6×3=18)

8) Sperm dimorphism.

9) Structure of synergid.

10) Structure and function of filiform apparatus.

11) Seedless fruits.

12) Application of pollen morphology.

13) Plant introduction agencies in India.

14) Terminator seed technology.

15) Economic aspects of agriculture in Kerala.

IV. Answer any seven of the following : (7×2=14)

16) Endothelium.

17) Pollen storage.

18) Hollow style.

19) Primary endosperm nucleus.

20) Agamo spermy.

21) Erdtman.

22) IPGRI/IBPGR.

23) Tilling.

24) Genetically engineered crops.

25) Obturator.