K18P 0095

Reg. No. : .....

Name : .....

Second Semester M.Sc. Degree (Regular/Supplementary/Improvement) Examination, March 2018
(2014 Admn. Onwards)
BOTANY
BOT2C05 : 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 of ovule development in Angiosperms.

OR

2) Write on the ultrastructure, physiology and cytology of endosperm.

3) Write on genetic resources. Add a note on their conservation and utilisation in crop improvement.

OR

4) What is mutation breeding ? Explain the major achievements through mutation breeding in different crops.

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

5) a) What is tapetum ? 1
b) Write on male sterility. 2
c) Pollen embryos and its significance. 3

6) a) What is tilling ? 1
b) Write on the genetics of resistance. 2
c) Variety release procedures. 3

7) a) Types of pollen grains. 1
b) Adaptation of pollen grains. 2
c) Nutritive value of honey. 3

P.T.O.

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

8) Function of pollen wall layers.

9) Double fertilisation.

10) Symmetry in plants.

11) Terminator seed technology.

12) Plant breeders rights.

13) Plant breeding institutes in India.

14) Farmers movement.

15) Types Germ plasm collection.

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

16) Seed certification.

17) Pollen allergy.

18) Endosperm haustoria.

19) Stigma proteins.

20) Apomixes.

21) Biodiversity international.

22) Quarantine.

23) Polyembryony.

24) Sperm dimorphism.

25) Filiform apparatus.