



Reg. No.:

Name:



K19P 0065

IV Semester M.Sc. Degree (Reg./Suppl./Imp.) Examination, April 2019
(2014 Admission Onwards)
BOTANY
BOT4E08 : Crop Improvement

Time : 3 Hours

Max. Marks : 60

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

(2×8=16)

1) Give an account of major food crops of Kerala.

OR

2) Explain applications of recombinant DNA technology in crop improvement.

3) Explain the role mutation breeding in crop improvement.

OR

4) Explain systems of incompatibility and sterility.

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

(2×6=12)

5) a) Clones and clonal propagation.

b) Clonal selection.

c) Clonal propagation methods in rubber.

6) a) Nitrogen fixation.

b) Genetics of nitrogen fixation.

c) Fertilizers in crop improvement.

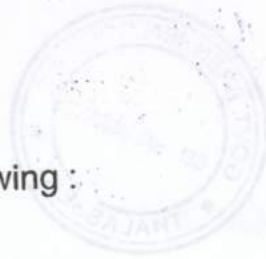
7) a) Conservation of traditional seeds.

b) Farmers movements.

c) Germplasm exchange.

P.T.O.

K19P 0065



Reg. No.
Name:

(6×3=18)

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

- 8) Patent laws.
- 9) Farmers' rights.
- 10) Plant breeders' rights.
- 11) Haploids and crop improvement.
- 12) Polyploids and crop improvement.
- 13) Plant introduction.
- 14) Acclimatization.
- 15) Rural gene banks.

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

(7×2=14)

- 16) Genetic variability.
- 17) Floral biology.
- 18) Anthesis.
- 19) Emasculation
- 20) Mass selection.
- 21) Pure-line selection.
- 22) Wide hybrids.
- 23) Resistance breeding.
- 24) Cytoplasmic male sterility.
- 25) Inbreeding.