



K18P 0281

Reg. No. :

Name :

**Fourth Semester M.Sc. Degree (Reg./Suppl./Imp.) Examination, March 2018
(2014 Admission Onwards)**

BOTANY

BOT 4E 08 : Crop Improvement

Time : 3 Hours

Max. Marks : 60

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

(2×8=16)

1) Write an account of research methodology in plant breeding.

OR

2) Explain the method of clonal selection.

3) Give an account of sustainable agriculture.

OR

4) Explain patent laws.

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

(2×6=12)

5) a) Production of improved seed.

b) Seed certification.

c) Variety release procedure.

6) a) Plant breeding institutes in India.

b) NBPGR.

c) CPCRI.

7) a) Applications of tissue culture in crop improvement.

b) Micro-propagation.

c) In vitro exchange of germ plasm.

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

(6×3=18)

8) Centers of origin

9) Centers of diversity

10) Gene banks

11) Domestication

12) Heterosis

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13) Significance of haploids

14) Farmers rights

15) Somatic hybridization:

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

(7×2=14)

16) Back cross

17) Transgenic plants

18) Biodiversity international

19) Resistance breeding

20) Inbreeding

21) Plant introduction

22) Interspecific hybrid

23) Improved seed

24) Plant breeder's right

25) Popular hybrid of cashew.