MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: IV (New)				
Course No.	: BOT 245	**Term**	: II	**Academic Year**	: 2015-16
Credits	: 3 (2+1)	**Title**	: Breeding of Field and Horticultural Crops		
Day & Date	: Monday, 02.05.2016	**Time**	: 14.00 to 17.00	**Total Marks**	: 80

Note :
1. Solve **ANY EIGHT** questions from **SECTION "A"**.
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Define germplasm. Enlist kinds of germplasm and describe various methods of germplasm conservation.

Q.2 Define recurrent selection. Give its types and explain reciprocal recurrent selection.

Q.3 Describe the characteristics of plant ideotype. Explain the important features of plant ideotype for cotton.

Q.4 Enlist breeding methods used in self and cross pollinated crops. Explain in detail pure line selection method.

Q.5 Define genetic resistance. Describe different sources used in developing disease resistance.

Q.6 What is combining ability? Describe the types of combining ability.

Q.7 Define heterosis. Enlist factors affecting the magnitude of heterosis. Describe in detail estimation of heterosis.

Q.8 What is mutation breeding? Explain in detail the procedure for mutation breeding.

Q.9 Complete the following table

Sr. No.	Crop	Botanical Name	Family	Origin	Chromosome No.
1)	Maize				
2)	Soybean				
3)	Desi Cotton				
4)	Brinjal				

Q.10 Write short notes on (Any two).
1) Multiple factor hypothesis
2) Heritability
3) Intellectual Property Rights (IPR)

SECTION "B"

Q.11 Define the following terms.
1) Distant hybridization
2) Inbred
3) Plant introduction
4) Horizontal resistance
5) Back cross
6) Stress
7) Stability
8) Polyploidy

Q.12 Give full form of the following.
1) CICR
2) IPGRI
3) IRRI
4) CAZRI
5) IARI
6) CRIDA
7) IIHR
8) NBPGR

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