MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PONE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

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Seme	
Cour Cred	se No. : GPB 355 its : 2 (1+1) Title : Crop Improvement-I (Kharlf Crops)
	& Date : Thursday, 17.10.2024 Time : 14:00 to 16:00 hrs. Total Marks : 40
	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 diagram wherever necessary.
SECTION 'A'	
Q.1	Define Plant genetic resources. Explain in brief the kinds of germplasm.
Q.2	Define Pedigree. Explain in brief the procedure of pedigree breeding method.
Q.3	Describe different mechanisms of drought resistance in crop plants.
Q.4	Describe hybrid seed production technology in maize.
Q.5	Give the botanical name and centre of origin of the following crops:
	a) Sorghum b) Soybean c) Pigeon pea d) Cotton
Q.6	Define Emasculation. Describe various methods of emasculation.
Q.7	Describe different mechanisms of disease resistance in crop plants.
Q.8	Differentiate between (Any Two):
	a) Qualitative and Quantitative characters
	b) Pureline and Mass selection
	c) Vertical and Horizontal resistance
Q.9	Give the important features of crop ideotype for rice and cotton.
Q.10	Write short notes on (Any Two):
	a) Germplasm conservation b) Quality traits of oilseeds c) Antibiosis
	SECTION 'B'
Q.11	Define the following terms:
	1) Landraces 2) Detasseling 3) Heritability 4) Ideotype
Q.12	Fill in the blanks:
	1) Superiority of F ₁ over its parents, is called
	2) The mechanism, promotes cross-pollination in bajra.
	3) seeds stored at a low temperature without losing their viability.
	4) The toxic substance present in soybean is