MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BO **4 gd**, put semester end examination

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1	Semes	ter : II (New) Term : II Academic Year : 2017-T
	Course	e No. : H/BOT 123 Title : Principles of Plant Breeding
	Credit	s : 3 (2+1) Date : Wednesday 25 04 2018 Time : 09.00 to 12.00 Total Marks : 8
	Day &	Note: 1. Solve ANY EIGHT questions from SECTION "A".
		3. All questions carry equal marks.
_		4. Draw neat diagrams wherever necessary.
		SECTION "A"
(Q.1	Define plant breeding. Give its aims and explain objectives of plant breeding.
(Q.2	Define pollination. Explain various mechanisms that promote self and cross pollination
(Q.3	Define self incompatibility. Give different types of self incompatibility along with the main features of self incompatibility.
(Q.4	Enlist different breeding methods of cross pollinated plants. Give the procedure for development of synthetic variety.
0	Q.5	What is hybridization? Explain various steps involved in hybridization.
(Q.6	What is heterosis? Enlist the different theories of heterosis and explain dominance hypothesis of heterosis.
	Q.7	Define mutation breeding. Give the advantages and limitations of mutation breeding.
(Q.8	Define male sterility. Enlist the types of male sterility found in crop plants. Explain genetic male sterility.
(Q.9	Write short notes (Any Two).
		a) Inbreeding depression b) Heritability
		c) Complex cross
(Q.10	Differentiate between (Any Two).
		a) Pure line selection and mass selection b) Qualitative traits and quantitative tra
		c) Asexual reproduction and sexual reproduction
		SECTION "B"
)	Q.11	a) Give the contribution of following scientist in one sentence.
		1) Thomas Fairchild 2) Stadler L.J.
		3) Johannsen W.L. 4) Shull G.H.
		b) Fill in the blanks.
		1) is the crossing between genetically dissimilar plants.
		 Reselection generation after generation with intermating of selected plants is called
		3) is the quickest method of plant breeding.
		4) The gene which restores male fertility in the male sterile line is known as
,	Q.12	Define the following terms.
	-	1) Germplasm 2) Mutation 3) Clone 4) Simple cross

B.Sc. (Hons.) Horticulture

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