## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

## B.Sc.(Hons.) Agriculture

Semester		III (New)	Term	•	First Academic Year : 2022-23	
Course No. :		GPB 232	Title	:	Fundamentals of Plant Breeding	
Credits : 2 (1+1)						
Day &		J /	Time		09:00 to 11:00 hrs. Total Marks : 40	
	Note: 1. 2 3 4	. All questions from SECTION. All questions carry equal mar	N 'B' are ks.	e co		
<i>y</i> .						
Q.1	SECTION 'A' Define heterosis. Enlist different theories of heterosis. Explain dominance hypothesis of heterosis with objections.					
Q.2	Define recurrent selection. Enlist its types. Explain in brief the procedure for reciprocal recurrent selection.					
Q.3	Define Plant Breeding. Explain in brief general objectives of plant breeding.					
Q.4	Explain in brief clonal selection. Write merits and demerits of clonal selection.					
,Q.5	Enlist different breeding methods in self pollinated crops. Discuss in brief advantages and limitations of pure line selection.					
Q.6	Define polyploidy. Discuss in brief applications of autopolyploidy in crop improvement with their limitations.					
Q.7	How to develop a multiline variety? State the characteristics of a good multiline. Give its achievements in plant breeding.					
Q.8	What is hybridization? Explain in detail steps involved in hybridization.					
Q.9		nort notes on:	•		,	
		introduction			nanisms promoting cross pollination	
Q.10	Define molecular marker. Enlist different types of molecular markers. Describe any one in detail.					
SECTION 'B'						
Q.11	Define t	he following terms:				
	1) Accli	matization	2) Re	cur	rent parent	
	3) Herita	ability	4) Int	oree	eding depression	
Q.12	Fill in th	ne blanks:				
	1) CIMMYT stands for					
	2) is a source of dwarfing gene in rice.					
	3) First artificial hybrid between Carnation and Sweet William was made by					
	4) Flower opens only after pollination, is known as					

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