Semester	: III (New)		idemic Year : 2015-14	
Course No	. : BOT 233	Title : Principles of P	Plant Breeding	
Credits	: 3(2+1)			
Day & Da	te: Tuesday, 22.10.2013	Time : 9.00 to 12.00	Total Marks : 80	
Not	1			
		SECTION "A"		
Q.1 D	Define hybridization. Describe aims, objectives and types of hybridization.			
Q.2 D	cribe in detail procedure of pedigree method.			
Q.3 D	Define male sterility, types and their utilization in crop improvement.			
	Q.4 Define heterosis, types, hypothesis and utilization in crop improvement.			
Q.5 [Q.5 Define mutation breeding. Describe in detail its application in crop improvement.			
Q.6 Define polyploids and allopolyploids. Explain application and utilization of allopolyploidy in crop improvement.				
Q.7 I	Define wide hybridization and role of wide hybridization in crop improvemt.			
Q.8	Q.8 Write short notes on the followings.			
1) Clonal selection 2) Recurrent selection				
Q.9 Differentiate between the following.				
1) Composite varieties and synthetic varieties.				
	2) Pure line and inbred.			
Q.10	Define plant breeding. Describe	e aim, chief and general objecti	ves of plant breeding.	
		SECTION "B"		
Q.11	Define the following terms.			
	1) Mutagens	2) Acclimatisation		
	4) Inbreeding depression	5) Incompatibility	6) Cleistogamy	
0.10	7) Clone	8) Often cross pollinated sp	becies	
Q.12	Fill in the blanks.	d as the substitution for sexual r	eproduction of an asexual	
	process which does not invo		eproduction of all dovidur	
	2) Gametophytic incompatibi	lity was first reported by	and (1925) in	
	Nicotiana sanderae.			
	3) In 1903, propo	osed the pure line theory, that pr	rovide the genetic base for	
	individual plant selection.			
		resulted from the studies of	on inbreeding in maize.	
	5) Triticale is the cross between	en wheat xen on which 50 per cent of the r	nutagen treated individual	
	die .	en on which so per cent of the f	managen neared marriaga	
7) In sorghum, bajra and maize, male sterility is used for hybrid seed producti				
	8) An allopolyploid having tv	vo copies of each of the two or r	nore different genomes	
	present is called			