).	Expi	ain:						
	(a)	Artificial seeds.	4	B.Sc. (Part-II) Semester-III Examination				
	(b)	Flowering habit in Cucurbits.	4	3S: SEED TECHNOLOGY (Vocational)				
			(Hybrid Seed Production and Vegetable					
		OR		Seed Production)				
	(d)	Vegetative propagation.	4	Time—Three Hours] [Maximum Marks—80				
	(e)	Objectives of vegetable breeding.	4	Note: (1) ALL questions are compulsory				
	(f)	Genetic Male Sterility in Tomato.	4	Note: (1) ALL questions are compulsory.				
_	Define clonal selection. Explain in detail the method of			(2) Draw well labelled diagrams wherever necessary.				
6.	collection of clones.		12	1. (A) Fill in the blanks:				
	OR			(i) Tomato is normally pollinated.				
	Describe in brief pollination methods in vegetables.		. 12	(ii) The soil for chilli fields should be well				
7.	Con	nment on:		and aerated.				
	(a)	Root crop.	4	(iii) Spinach is an example of vegetable.				
	(b)	Effects of environment on seed setting.	4	(iv) In classification of vegetable Colocasia includes				
	(c)	Plant protection during seed production.	4	in				
	OR			(B) Choose appropriate alternative: 2				
	(A)			(i) Onion is a crop and takes two full				
	(d)	Present status of vegetable seed production.	4	seasons to produce seeds.				
	(e)	Bulbous crops.	4	(a) Annual				
	(f)	Nursery Management during vegetable	seed	(b) Biennial				
		production.	4	(c) Perennial				
				(d) None of the above				
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(ii)	Seed production of is possible only in hill areas.			Explain the following:		
(-)				(a)	Genetic basis of heterosis	4
	(a) Onion			(b)	Apomixis	4
	(b) Chillies			(c)	Exploitation of heterosis in Sorghum.	4
	(c) Cabbage				OR	
	(d) None of the a	above		(d)	Fixation of Apomixis in Rice	4
(iii)	is a temperate vegetable.			(e)	Exploitation of heterosis in Cotton	4
	(a) Radish			<u>(f)</u>	Biochemical basis of heterosis.	4
	(b) Cauliflower		3.	Cor	mment on:	
	(c) Trigonella			(a)	Role of marker genes	4
	(d) None of the	above		(b)	Cytoplasmic Male Sterility	4
(iv		duction minimum isolation		(c)	Seed production of restorer line 'R'.	4
	distance is	_required.			OR	
	(a) 10 meters			(d)	Advantages of genetic Male Sterility	4
	(b) 7 meters			(e)	Seed production of CMS line 'A'	4
	(c) 5 meters			(f)	Importance of maintenance of Seed Parents.	4
	(d) None of the	above				
(C) A:	Answer in one sentence:		4.	Give an account of floral biology seed production planning		
(i)	What is isolation	distance?		lan	nd and isolation requirement in Sunflower.	
(ii)) What is pollination	What is emasculation? What is emasculation?			OR	
(iii	i) What is emascula			De	escribe in detail Hybrid seed production in Cotton	
(iv	What is double c	ross?				12
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