4.	Describe in detail the process of breeding for disease					
	resi	stance.	12			
		OR				
	Des	scribe in detail techniques of production of hap	loids			
_		add a note on their significance.	12			
5.		nment on :				
	(a)	Seed quality control	4			
	(b)	Concept of genetic purity	4			
	(c)	Certified seeds	4			
		OR				
	(d)	Anthesis	4			
	(e)	Characteristics of sowing quality seeds	4			
	(f)	Self incompatibility	4			
6.	Des	scribe in detail the hybrid seed production.	12			
		OR				
	Giv	e an account of factors affecting the areas of	seed			
		duction.	12			
7.	Comment on :					
	(a)	Agronomic management in wheat	4			
	(b)	Planning and organisation in seed production	4			
	(c)	Handling of harvested seeds	4			
		OR				
	(d)	Harvesting and thrashing in soybean seed produc	ction			
		highed or on abboth though excitated in	4			
	(e)	Seed production procedure in maize	4			
	(f)	Indian seed industry	4			
UBS	4885	52 4	125			

B.Sc. (Part-I) Semester-II Examination SEED TECHNOLOGY (Voc.)

(Plant Breeding Methods for Crop Improvement & Seed Production)

Time—T	hree	Hours] [Max	imum Marks-80
Note :-	(1)	There are SEVEN question	s in all.
	(2)	Question No. 1 is compuls marks.	sory and carries 8
	(3)	Question Nos. 2 to 6 carry	equal marks
	(4)	wherever necessary.	
1. (A)	Fill	in the blanks :	
	(i)	Back cross method refers to F ₁ hybrid and	
	(ii)	Heterosis results in	
	(iii)	The term 'pure line' was by	first introduced ½
	(iv)	Tissue culture is the	growth of cells,
		tissues and organ.	1/2
UBS-4885	2	1	(Contd.

(B)	Choose the correct alternatives (MCQ):					(C)	Answer in ONE sentence :	
	(v)	Pur	e line breed refers to				(ix) Where International Rice Research Institut	e is
	- 1	(a)	Heterozygosity only				situated?	1
		(b)	Homozygosity only				(x) What is dihybrid ratio of Mendel?	1
		(c)	Heterozygosity and linkage				(xi) Define pure line selection.	1
	-	(d)	Homozygosity and self assortment	1/2			(xii) What is mutation?	1
	(vi)	(vi) Bagging is done to:			2.	Con	nment on :	
		(a)	Avoid cross pollination			(a)	Limitation of clonal selection	4
		(b)	Avoid self pollination			(b)	Acclamatistion	4
		(c)	Achieve desired pollination			(c)	Herbarium preparation	4
		(d)	Avoid contamination from foreign polle	erns			OR	
		ensemble 5	1/2		(d)	Advantages of pure line selection	4	
	(vii) Breeding for disease resistance requires.				(e)	Law of segregation	4	
		(a) A good source of resistance				(f)	Plant exploration	4
		(b)	Planned hybridization		3.	(a)	Difference between pure line selection and clo	mal
		(c)	Disease test			(4)	selection	4
	(d)	All of these	1/2		(b)	Types of hybridization	4	
(viii) Self pollinated homozygous plant is a progeny				geny		(c)	Development of inbred lines	4
to and of:				(0)	OR	7		
		(a)	Female parent in hybrid			(4)		
		(b)	Pure line			(d)	Merits and demerits of mass selection	4
		(c)	In bred			(e)	Advantages of heterosis	4
		(d)	Male parent in hybrid	1/2		(f)	Development of double cross hybrid	4