WPZ-3362

(Contd.)

B.Sc. Part-II Semester-IV Examination SEED TECHNOLOGY

(Seed Testing and Seed Quality Control)

Time : Three Hours]							[Maximum Mark	[Maximum Marks: 80		
N.B.	:	(1)	All questions are compulsory.							
		(2)		wwell labelled diagra	-	ess	sary.			
1.	(A)	Fill	Fill in the blanks:							
	. ,	(i)						1/2		
		(ii)			-		in weight when it is dried.	1/2		
		(iii)		is the outermost c				1/2		
		(iv)								
	(B)	Cho	ose c	ose correct alternatives (MCQ):						
		(v) Seed Act refers to the Indian Seed Act					·			
			(a)	1960	(b))	1966			
			(c)	1965	(d))	None	1/2		
		(vi)	See	Seed testing is the science of evaluating the planting quality of seed it is sown.						
			(a)	After	(b))	Refore			
			(c)	Both (a) and (b)	(d))	None	1/2		
		(vii)	Bre	eders seed is the scee	l which has	_	generic purity.			
			(a)	Maximum	(b))	Minimum			
			(c)	Both (a) and (b)	(d)	None	1/2		
		(viii)	Мо	sture content of seed sample is the _			in weight, when it is dried.			
			(a)	Loss	(b)	Increase			
			(c)	Both (a) and (b)	(d)	None	1/2		
	(C)	Ans	wer	in one sentence:						
		(ix)	Wh	at is working sample	?			1		
		(x)	Wh	at is seed quality?				1		
		(xi)	Wh	at is seed certification	n ?			1		
		(xii)	Wh	at is seed vigour?				l		
2.	Des	cribe	in d	etail seed testing equi	pments and their	m	aintenance.	12		
	OR									
	Explain in brief:									
	(a)	Handling and testing of seed sample.								
	(b)	Nat	ional	l organisation and see	d testing linkages			6		

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3.	Desc	cribe in brief :				
	(a)	Seed vigour testing.	4			
	(b)	Seed testing in relation to Seed Act.	4			
	(c)	Record keeping in seed testing.	4			
		OR				
	(d)	Culture purity testing.	4			
	(e)	Rapid test of seed quality determination.	4			
	(f)	Testing of plated seeds	4			
4.	Des	Describe in brief:				
	(g)	Physical purity.	4			
	(h)	Seed certification.	4			
	(i)	Seed Inspector qualification and duties.	4			
		OR				
	(j)	Seed legislation.	4			
	(k)	Concept of variety variation.	4			
	(l)	Genetic purity.	4			
5.	Des	cribe in brief classes of seed and phases of seed certification.	12			
		OR				
	Des	cribe in detail :				
	(a)	Seed certification agencies and its organisation.	6			
	(b)	Principle of field inspection.	6			
6.	Des	Describe in brief:				
	(m)	Oil seeds production.	4			
	(n)	Testing of genetic purity of cotton seeds.	4			
	(0)	Interstate seed certification.	4			
		OR				
	(p)	Techniques of field inspection in seed production.	4			
	(q)	Seed plot inspection at harvesting.	4			
	(r)	Issue of certificates and tag.	4			
7.	Exp					
	(s)	Central sub-committee on Crop Standards.	4			
	(t)	International seed certification.	4			
	(u)	Plant breeders right.	4			
		OR				
	(v)	State Seed Committee.	4			
	(w)	OECD.	4			
	(x)	Management of seed certification programme.	4			