## B.Sc. Part-III (Semester-V) Examination SEED TECHNOLOGY

			(Seed I	'athology and	Seed	i Entomology)	
Time : Three Hours]						[Maximu	m Marks : 80
Note :-	-(1)	All questions are compulsory.					
	(2)	Dra	w well labelled d	iagrams wh <b>er</b> ev	er ne	cessary.	
1. (A)	Fill in the blanks of the following:						
	(i)		is the basic in	put of crop pro	ducti	on.	1/2
	(ii)		hogen enters the is ss below the seed		hrou	gh and lies quiescent fo	rming a slimy ½
	(iii)		d is a legal duction.	y sanctioned sys	stem	for quality control of seed mult	tiplication and
	(iv)	The	is general	y exist inside th	e cro	p residues weeds after the crop	is harvested.
(B)	Cho	ose t	the correct alterna	tives :			
	(v)		is the most me	chanical assure	d wa	y of destroying the pest larvae	population at
		initi	ial stage of pest of	ccurrence.			
		(a)	Insect trap		(b)	Hand pickling	
		(c)	Crop rotation		(d)	Artificial cooling	1/2
	(vi)	Wh	ich method is used	for detection of	seed	borne fungi which are not easi	ly detectable?
		(a)	Agar plate meth	ođ	(b)	Dome test	
		(c)	Serological test		(d)	Examination of wet seeds	1/2
	(vii)	Moi	ist weather	the spread of	rust a	and downy mildew disease.	
		(a)	Oppose		(b)	Favours	
		(c)	Control		(d)	No effect	1/2
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		(viii) The insects are the only in	vertebrates pos	ssessing the			
		(a) Legs	(b)	Antennae			
		(c) The head	(d)	Wings	1/2		
	(C)	Answer in one sentence:					
		(ix) What is the main objective	of seed certifi	cation?	1		
		(x) How to control seed borne	nematode dis	sease ?	1		
		(xi) Define seed health testing.			1		
		(xii) Which is the beneficial inse	ect?		1		
2.	Con	Comment on :					
	(a)	Seed borne bacteria			4		
	(b)	Entry point of seed infection			4		
	(c)	Control of storage fungi.			4		
			OR				
	(p)	Seed borne viruses			4		
	(q)	Impact of storage fungi			4		
	(r)	History of seed pathology.			4		
3.	Con	nment on:					
	(a)	Modern techniques of seed treat	tment		4		
	(b)	Field management in seed produ	ection		4		
	(c)	Effect of humidity on seed born	e diseases.		4		
			OR				
	(p)	Seed crop management			4		
	(q)	Effect of temperature on seed b	orne disease		4		
	(r)	Quarantines of seed health testir	ng.		4		
4.	Wh	at is meant by seed borne diseas	es and explain	in detail seed act in relation to			
	dise	ases?			12		
			OR				
	Disc	cuss :					
	(a)	Methods of seed health testing f	or fungi		6		
	(b)	Seed certification.			6		
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5.	Cor	nment on :	
	(a)	General classification of insects	4
	(b)	Important pests of paddy	4
	(c)	Appendages of insects.	4
		OR	
	(p)	General body of insect	4
	(q)	Important insect pest of sorghum	4
	(r)	Important insect pest of vegetables.	4
6.	Exp	lain honey bee, their social structure and write short note on bee keeping.	12
		OR	
	Disc	cuss in brief methods of insect control.	12
7.	Con	nment on :	
	(a)	Plant Protection Equipments (any two)	4
	(b)	IPM strategies for important pests	4
	(c)	Detection of infestation.	4
		OR	
	(p)	Types of fumigants	4
	(q)	Rodents and their control	4
	(r)	Types of insect pest of stored grains.	4

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