## B.Sc. (Part—III) Semester—V Examination SEED TECHNOLOGY (Vocational) (Seed Pathology & Seed Entomology)

(Seed Pathology & Seed Entomology)
Time: Three Hours] [Maximum Marks: 80
N.B.:—(1) All questions are compulsory.  (2) Draw well labelled diagrams wherever necessary.
1. (A) Fill in the blanks of the following:
(i) content of seed is most important factor in the maintenance of seed
(ii) Rodents and Birds are constant source of
(iii) The object of sampling is to obtain sample of size suitable for the required test.
(iv) The storage bacteria require percent relative humidity.
(B) Choose the correct alternative (MCQ):
(v) Washing test is used for the detection of seed borne fungi which transmitted
(a) Internally (b) Externally
(c) Both (a) and (b) (d) None
(vi) infections are adversely affected in seed by free water.
(a) Nematode (b) Bacteria
(c) Fungi (d) Virus
(vii)One percent decrease in moisture content nearly storage potential of seed.
(a) Half (b) Doubles
(c) Both (a) and (b) (d) None
(viii) the temperature, the longer the seeds maintain germination capacity. 1/2
(a) Higher (b) Lower
(c) Both (a) and (b) (d) None
UNW -27455 1 (Contd.)

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	(C)	Answer in one sentence:		
		(ix) What is the importance of bee keeping?	1	
		(x) What is LP.M. ?	1	
		(xi) What is sampling of seeds?	1	
		(xii) What is Economic Entomology?	1	
2.	Exp	plain :		
	(a)	Seed-borne fungi.	4	
	(b)	Entry point of seed infection.	4	
	(c)	Impact of fungi on human health.	4	
		OR		
	(p)	History of seed pathology.	4	
	(q)	Economic significance of seed diseases.	4	
	(r)	Seed transmission.	4	
3.	Des	scribe in brief effects of environmental factors on seed-borne diseases.	12	
		OR		
	Des	scribe in brief effective management of seed crop.	12	
4,	Explain:			
	(a)	Importance of National cooperation in seed pathology.	4	
	(b)	Folerance limit of seed-borne pathogens.	4	
	(c)	National seed act in relation to seed diseases.	4	
		OR		
	(p)	Importance of seed certification.	4	
	(q)	International cooperation in seed pathology.	4	
	(r)	Importance of inspection of plants beyond seedling stage.	4	
5.	Des	cribe in brief methods of insect classification.	12	
		OR		
		cribe in brief important insect pest of cereal crop – maize and sorghum with heir nature of damage and management.	reference 12	
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6.	Exp	Explain:				
	(a)	Methods of insect control.	4			
	(b)	Social structure of honey bees.	4			
	(c)	Safe application of pesticides.	4			
		OR				
	(p)	Role of insect in pollination.	4			
	(q)	Preparation of spray solution.	4			
	(r)	Physical method of insect control.	4			
7.	Exp					
	(a)	Importance of control of Rodents in seed godowns.	4			
	(b)	IPM strategies for important pests.	4			
	(c)	Insect pests and mites found in storage.	4			
	OR					
	(p)	Importance of maintenance of plant protection equipments.	4			
	(q)	Methods of fumigation.	4			
	(r)	Impacts of seed protectants on viability of seeds.	4			

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