Seat No.			Set	P
M.Sc		ochemicals and Pest Management) (Sem - Examination: March/April - 2025 mistry of Pesticides, Soil Science & Fertili		CS)
•		Thursday, 15-May-2025 PM To 05:30 PM	Max. Marks	s: 60
Instru	ctions	<ul><li>: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>		
Q.1 /	A) CI 1)	hoose the correct alternative. (MCQ)  The hormone involved in phototropism is  a) Auxin b) Gibberellin  c) Kinetin d) 2, 4-D		80
	2)	Which of the following is concentrated organ a) F.Y.M b) Oil cake c) Guano d) Compost	ic manure?	
	3)	The PGR ethylene is in nature. a) Volatile liquid b) Non volatile c) Solid d) Gas	liquid	
	4)	Pit method is used for the production of a) PGR b) Manures c) BGA d) Rhizobium		
	5)	The chemical composition of single superphosing a) [3Ca(CH <sub>2</sub> PO <sub>4</sub> )2H <sub>2</sub> O] b) Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> c) [Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> ] d) None of the	•	
	6)	deficiency causes acidity of soil. a) Zinc b) Iron c) Calcium d) Copper		
	7)	The percentage of P <sub>2</sub> O <sub>5</sub> in ammonium phosp a) 48% b) 45% c) 46% d) 44%	ohate is	
	8)	The molecular formula of SOP is a) $K_2SO_4$ b) $KSO_4$ c) $K_2SO_3$ d) $K_3SO_4$		

	B)	<ul> <li>Fill in the blanks.</li> <li>a) The formula of calcium cyanamide is</li> <li>b) Muriate of potash is also known as</li> <li>c) Biogas plant produces gas.</li> </ul>	04
		d) Trough method is used for the production of	
Q.2	Ans a) b) c) d) e) f)	wer the following. (Any 6) Define botanical pesticides with example. What are the potassic fertilizers? Write the advantages of BGA to crop fields. Write short note on normal superphosphate. Enlist selective arid non selective herbicides. Write the examples of non toxic insect controlling agents. What is mean by alkaline soil? Define biofertilizers.	12
Q.3		wer the following. (Any 3) Write a note on fumigants. Describe the action of calcium cyanamide and calcium ammonium nitrate as fertilizers. What are plant growth regulators? Write the applications of ethylene and CCC. Explain effect of modern agro-technology and pesticides on soil.	12
Q.4	Ans a) b) c)	wer the following. (Any 2)  Explain in brief humus and farm yard manure.  Write in detail manufacture of sodium nitrate.  Describe in brief soil micronutrients, acidic and alkaline soils.	12
Q.5	Ans a) b) c)	wer the following. (Any 2) What are potassic fertilizers? Write its types. Describe in brief muriate of What is pest and pesticides? Write the classification of pesticides based on type of target.  Explain in detail the process involved in the use of rhizobium as fertilizer.	<b>12</b> f.

Seat No.						Set	P			
M.Sc.	M.Sc. (Agrochemicals and Pest Management) (Sem - I) (New) (NEP CBCS)  Examination: March/April - 2025  Introductory and Industrial Entomology (2301102)									
,	Day & Date: Saturday, 17-May-2025  Fime: 03:00 PM To 05:30 PM  Max. Marks: 60									
Instru	ctions	•	ons are compuls to the right indica	-	marks.					
Q.1	A) C		rrect alternative	-	Q)		80			
		,	llusca hropoda	b) d)	Echinodermata Brachiopoda					
	2)	a) <i>Ap</i>	oney bee is calle is floria is Dorsata	b)	Apis indica					
	3)	a) Ba b) Ho c) Ap	name of name of tocera rofumacu lotrichia serrate is gosipii ilo zonellus		go Stem borrer is					
	4)	a) Cu	es are present in rsorial ptorial	b)	oach Compound Fossorial					
	5)		celia	b)	s caused by Protozoa Fungus					
	6)	a) Wa			noney bee Queen. Pollen honey					
	7)	a) Wi	e the sensory Or ngs ir of Antennae	b)	n Insect Legs None of above					
	8)	a) Ec	l slug belongs to ninodermata hropoda	b)	n Mollusca Lepidoptera					

	B)	Fill in a) b)	the blanks. Scientific name of mulberry silk worm is Life cycle including egg, nymph and adult is called as	04
			metamorphosis.	
		c)	Bettie belongs to Order	
		d)	are the fertile female in colony of Honey bee.	
Q.2	Ans	wer th	ne following. (Any 6)	12
	a)	Write	the four types of silkworm	
	b)		the Taxonomic classification of the termite.	
	c)		e the pest. Name any two sucking pest.	
	d)		the scientific name of Red hairy caterpillar.	
	e)		Economic importance of the Honey.	
	f)		any two brood diseases in the honey bee.	
	g)		e Entomology.	
	h)	VVNIC	h type of mouth parts are present in the House fly?	
Q.3	Ans	wer th	ne following. (Any 3)	12
	a)	Write	the general description of Insect Abdomen	
	b)	Desci	ribe the general life cycle pattern of White grub.	
	c)		the note on insect parasitoids.	
	d)	Give	the control measure for the Rat.	
Q.4	Ans	wer th	ne following. (Any 2)	12
	a)	Desci	ribe the colony organisation and life history of honey bee.	
	b)	Give	the life cycle pattern of Aphid with nature of damage and control	
		meas	ure.	
	c)		ribe the nervous system of cockroach with neat labelled	
		diagra	am.	
Q.5	Ans	wer th	ne following. (Any 2)	12
	a)		in the female reproductive system of cockroach with neat	
			ed diagram.	
	b)	of Ne	ribe the lifecycle pattern, nature of damage and control measure matode.	
	c)	•	in the Biting and chewing type of mouthpart in insect with ed diagram.	

Seat No.						Set	P			
M.Sc	M.Sc. (Agrochemicals and Pest Management) (Sem - I) (New) (NEP CBCS)  Examination: March/April - 2025  Plant Pathology and Weed Management (2301106)									
	Day & Date: Monday, 19-May-2025 Max. Marks: 60 Time: 03:00 PM To 05:30 PM									
Instru	ctio	-	-	estions are compulsor es to the right indicate	-	marks.				
Q.1	A)			e correct alternative.	-	Q)	08			
		1)	Leaf ( a) c)	curl of chili caused by <sub>s</sub> Odium sp. Gemini virus.	b)	 Plasmopara halstedii Wilt				
		2)	Hoeir a) c)	ng ismethod of v Biological Chemical	b)	d control. Hot water Physical				
		3)		l as		==				
		4)	Papa a) c)	ya Ring spots are caus Virus MLOs		Fungus Ergot				
		5)	Most a) c)	plant viruses are Rod shaped Parallel shaped	_ b) d)	Curved shaped none of above				
		6)	the di		be to be be be be					
		7)				irable plant which interfere with resources thus adversely affect Disease Cercospora				

		8) Club rot of cabbage is diseases a) MLos b) Fungal c) Powdery mildew d) Viral	
	B)	<ul> <li>Fill in the blanks.</li> <li>a) Mancozeb is type of fungicide.</li> <li>b) Use as chemical is known as method of weed control</li> </ul>	02
	B)	<ul><li>Write the True and False</li><li>a) 2- 4-D is non selective Herbicide</li><li>b) Red rot of Sugarcane caused by viruses</li></ul>	02
Q.2	Ans a) b) c) d) e) f)	Advantages of weed. Write the Casual organism of leaf curl of chili. Enlist the All fungal diseases in our syllabus. Write the symptoms of Banana leaf spot. Write the definition of weed. Write the control method of leaf spot. Defined epidemiology on plant disease. Defined the plant Disease.	12
Q.3	Ans a) b) c) d)	wer the following. (Any 3) Write Koch's postulates. Explain the concept of plant disease. Define the weed, write classification of weed. Disadvantages of weed.	12
Q.4	Ans a) b) c)	wer the following. (Any 2) Write the causal organism, symptoms and control method of Red rot of sugarcane. Explain the factors affecting of epidemic development. Enlist method of weed control write brief cultural method.	12
Q.5		wer the following. (Any 2) Write the Common symptoms and control method of viral diseases. Write the causal organism, symptoms and control method of yellow vein mosaic of beans. Enlist the types of fungal diseases, write the common symptoms on fungal disease.	12

Seat No.						Set	P
M.Sc.	. (Agrod	E	and Pest Mana xamination: Ma esearch Method	arch/	-	/) (NEP CB(	CS)
-		aturday, 24 M To 05:30	<del>-</del>			Max. Marks	: 60
Instru			ions are compulso to the right indica	-	marks.		
Q.1 /	•	A research	orrect alternative or paper is a brief ary Data only	•	Q) of research work ba	ised on	08
		b) Seco c) Both	ndary Data only Primary and Second of the above	ondar	y Data		
	2)	a) Conti		b)	d in experimental res Observation Reference collection		
	3)		hydrone	b)	2 represent Hydroquinone None of these		
	4)	meter is _ a) Satur	•	nin the b) d)	e glass electrode (ref Con.HCL Dilute HCL	) of the pH	
	5)	<ul><li>a) Decis</li><li>b) Build</li></ul>	objectives include sion making new concepts nates old concept a and b		<b>.</b>		
	6)	<ul><li>a) Ident</li><li>b) Rese</li></ul>	process begins wification of resear earch design ction of data ort writing				

		7)	Hypothesis' is followed by a) Statement of Objectives b) Analysis of Data c) Selection of Research Tools d) Collection of Data	
		8)	Research is considered to be more than just a way of skills, it is	
			<ul> <li>a) Planning to what, why &amp; where type of question.</li> <li>b) A way of critical thinking about professional aspects of relate to your work.</li> <li>c) The research methods used within research methodology.</li> <li>d) Discovering the relation between variables.</li> </ul>	
	B)	a) b) c)	te the True and False  If data is insufficient, then the research problem will exist.  If the pH value is greater than 7, the solution is basic.  Potentiometer does not draw any current from the unknown source of EMF.  Last stage of research process is analysis of data.	04
Q.2	a) b) c) d) e) f)	Defi Writ Wha Writ Dray Wha	the following. (Any Six) ine research. te the characteristics of good research. at is Scopus in research design? at is emf of cell? te the application of potentiometer. w neat label diagram of quinhydrone electrode. at is sci-finder? ine research design.	12
Q.3	Ans a) b) c) d)	Exp Wha Exp	the following. (Any Three)  Islain qualitative verses quantitative research.  Islain the qualities of good research?  Islain in detail research problem.  Ite the application of pH meter.	12
Q.4	Ans a) b) c)	Wha Exp	the following. (Any Two) at is secondary data collection. Explain it in detail. blain computer-based application of pesticide development. te note on online literature searching.	12
Q.5	Ans a) b) c)	Writ Exp	the following. (Any Two) te in detail the format of research paper writing. lain the characteristics of good report writing. at are the different steps of writing a research paper?	12

	T				,	
Seat No.					Set	P
		(A.G.P.M.) (Sem - II) (Ne March/Ap nistry of Pesticides and	oriĺ - 2	2025		
•		ednesday, 14-May-2025 I To 01:30 PM		Ма	x. Marks	: 60
Instru		) All questions are compuls ) Figures to the right indica	-	marks.		
Q.1 /	A) Mult 1)	iple choice question. Thiodan is trade name of a) dicofol c) endosulfan	b) d)	- ethephon butachlor		80
	2)	Butachlor is produced by formaldehyde with a) azodiene c) aniline	of 2,6		e and	
	3)	a) 2,4-D c) dimecron	orinatio b) d)	on of nitrobenzene. PCNB dicofol		
	4)	is the name of the following $c_2H_5$ $P=0$ $C_1$ $C_2$ $C_3$ $C_2$ $C_3$ $C_4$ $C_5$ $C_5$ $C_5$ $C_6$ $C_$				
	_,	<ul><li>a) Monocrotophos</li><li>c) Phosphamidon</li></ul>	b) d)	•		
	5)	Reaction between alpha r a) Methomyl c) Carbaryl	naphth b) d)	nol and methyl isocyanate Carbofuran Aldicarb	e gives _	
	6)	Reaction of benzene with  a) Chlorobenzene b) o,o-dichlorobenzene c) Pentachloronitrob d) benzene hexachlori	e	ne in presence of sunligh	nt gives _	

	7)	a)	Aldicarb	b)	phosphorous pesticid Phosphamidon Carbaryl	es.		
	8)	a)	Herbicide	b)	Insecticide Bactericide			
B)	a) b) c)	Synth reacti Carba	nesis of carbofur on. amate contain _ _ is also known	functi	-	<b>04</b> nt		
Ans a) b) c) d) e) f) g)	The p Give to Draw Write Give to Give to	oropert the syr the str the us the syr the ap	ies of methomy nthesis of mane ructure of Dimerses of finitrothion of PCNE oplication of fungample of rodent	I. b. thoate. n. 3. gicide.		12		
Ans a) b) c) d)	Give to Write Write	ive the synthesis and uses of zineb and maneb.  Irite the properties and uses of malathion.  Irite the note on tin compound.						
Ans a) b)	Give Expla	the syr in thio furan.	nthesis, properti carbamate and	ies and use thiocarbam	ic acid. Give the stru	12 cture of		
•	wer th Write disulp Expla	ne follo note co hide. in pers	owing question on fumigants. Ex	n. (Any 2) xplain hydro icide in env	gen cyanide and car			
	Ans a) b) c) d) e) f) b) Ans a) b) Ans b) b)	8)  B) Fill in a) b) c) d) Answer th a) The p b) Give of the c) Draw d) Write e) Give of the c) Write d) Explain carbon c) Write disulp b) Explain changes the control of the contro	a) c)  8) Phose a) c)  B) Fill in the b a) Synth reaction by Carba conditions and an analysis and analysis analysis and analysis analysis analysis and analysis analy	a) Aldicarb c) Begoan  8) Phosphine gas is libe a) Herbicide c) Fungicide  B) Fill in the blanks. a) Synthesis of carbofur reaction. b) Carbamate contain _ c) is also known d) Ziram acts as  Answer the following question a) The properties of methomy b) Give the synthesis of mane c) Draw the structure of Dime d) Write the uses of finitrothion e) Give the synthesis of PCNE f) Write the application of fung g) Give the example of rodent h) Write short note on Sodium  Answer the following question a) Give the synthesis and use b) Write the properties and use c) Write the note on tin compo d) Give the synthesis of BHC.  Answer the following question a) Give the synthesis, propert b) Explain thiocarbamate and carbofuran. c) Write note on zinc oxide an  Answer the following question a) Write note on fumigants. Exdisulphide. b) Explain persistence of pest	a) Aldicarb c) Begoan d)  8) Phosphine gas is liberated by a) Herbicide b) c) Fungicide d)  B) Fill in the blanks. a) Synthesis of carbofuran involves reaction. b) Carbamate contain function c) is also known as lindane. d) Ziram acts as  Answer the following questions. (any 6) a) The properties of methomyl. b) Give the synthesis of maneb. c) Draw the structure of Dimethoate. d) Write the uses of finitrothion. e) Give the synthesis of PCNB. f) Write the application of fungicide. g) Give the example of rodenticide. h) Write short note on Sodium chloride.  Answer the following question. (Any 3) a) Give the synthesis and uses of malatle. c) Write the note on tin compound. d) Give the synthesis of BHC.  Answer the following question. (Any 2) a) Give the synthesis, properties and use b) Explain thiocarbamate and thiocarbam carbofuran. c) Write note on zinc oxide and zinc phosen. Answer the following question. (Any 2) a) Write note on fumigants. Explain hydrodisulphide. b) Explain persistence of pesticide in environmental contents.	a) Aldicarb c) Begoan d) Carbaryl  8) Phosphine gas is liberated by a) Herbicide b) Insecticide c) Fungicide d) Bactericide  B) Fill in the blanks. a) Synthesis of carbofuran involves rearrangeme reaction. b) Carbamate contain functional group. c) is also known as lindane. d) Ziram acts as  Answer the following questions. (any 6) a) The properties of methomyl. b) Give the synthesis of maneb. c) Draw the structure of Dimethoate. d) Write the uses of finitrothion. e) Give the synthesis of PCNB. f) Write the application of fungicide. g) Give the example of rodenticide. h) Write short note on Sodium chloride.  Answer the following question. (Any 3) a) Give the synthesis and uses of zineb and maneb. b) Write the note on tin compound. d) Give the synthesis of BHC.  Answer the following question. (Any 2) a) Give the synthesis, properties and uses of carbaryl. b) Explain thiocarbamate and thiocarbamic acid. Give the strucarbofuran. c) Write note on zinc oxide and zinc phosphide.  Answer the following question. (Any 2) a) Write note on fumigants. Explain hydrogen cyanide and cardisulphide. b) Explain persistence of pesticide in environment and Biota.		

Seat	Sat	D
No.	Set	

## M.Sc. (Agrochemicals and Pest Management) (Sem - II) (New)

		A	•	•			March/April - 2025 chemicals (2301202)	
•			•	16-May-2025 01:30 PM			Max. Mark	s: 60
Insti	ructio		-	questions are co	-	-	marks.	
Q.1	A)		The reginal	_		b)	known as near ultraviolet  800-1000nm 700-900nm	08
		2)	The chro		graphy	vis a s b)	special example of	
		3)	a)	primary standard K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> NaOH	besu t	b)	lox titration is KOH HCl	
		4)	a)	chromatographic fixation Diffraction		b)	are based on the principle of Separation Grouping	·
		5)		hyl red is i Red Orange			on. Yellow Pink	
		6)	-	Distance travelled by solve Distance travelled by solute Distance moved by solute	ed by ovented by sed by sed by sed by sed by sed by the	compon	value is given by the equation. onent divided by distance travelled ent divided by distance moved stance divided by distance	

		7)		N	r, mainly us	ed fo b) d)	or detecting P All of these	
		8)	a)	pectroscopy is conjugation photoanode	s mainly us	eful ii b) d)	n the determination of function group in molecule none of the above.	
	B)	1) 2) 3)	In contract known the contract known the known	wn as in finger print refull.  ultraviolet reg	ndicators. gion of the ion is subd	IR sp	e indicators used are generally pectroscopy lies in the range d into spectral region. cid- base indicators.	04
Q.2	a) b) c) d) e) f)	Write Write Men Write Whate Whate	e the e the ation the at is re e the at is fi	adsorbents us application of the various typ application of edox titration? application of inger print region the indicators	sed in TLC. UV spectro es of mode polarimetry TLC. ion?	oscop e of v	oy.	12
Q.3	a) b) c)	Write Expl Write	e in c lain ir e a n	ollowing. (Any detail types of a n detail acid - h ote on metallo ne paper chroi	vibration. case titration chromic inc	dicate	ors.	12
Q.4	a) b)	Des chro Des Expl	cribe matc cribe lain tl	ography. instrumentatio	rumentation on of Flame	e Pho	applications of ion exchange tometry. d for Zn and Mg analysis in	12
Q.5		Expl Write spec Des	lain tle the ctroso cribe	сору.	gravimetric instrument	ation	nation of iron. of atomic absorption applications of column	12

Seat	Sat	D
No.	Set	

## M.Sc. (Agrochemicals and Pest Management) (Sem - II) (New) (NEP CBCS) Examination: March/April - 2025 Agronomy, Biotechnology and Economic Entomology (2301206)

	Agro	onom	ŷ, Bi	otechnology and Ed	ono	omic Entomology	(2301206)
				20-May-2025 :30 PM			Max. Marks: 60
Insti	ructio	-	-	uestions are compulso res to the right indicate	-	marks.	
Q.1	A)	Multi 1)	a)	<b>noice question.</b> _ is the Father of tissu Bonner Haberlandt	b)	Laibach	08
		2)	a)	_ crop known Pulses. Sorghum Soybean	•	Wheat groundnut	
		3)	a)	_ is the pest of livestoo Cattle louse Rice weevil	b)	_	
		4)	a)	crop does best soil for Black cotton Red	b)		
		5)	a)	_ belongs to phylum M Grasshopper Snail		white grub	
		6)	a)	ootanical name of guav Solan melongena Psidium guajava		= -	
		7)	Freed a) c)	dom from inert matter a Genetic purity Germination purity	b)	Physical purity	
		8)	Spari a) c)	row belongs to class _ Insecta Aves	b) d)	Nematode none of the above.	

	B)	<ul> <li>a) Rice weevil is pest of</li> <li>b) is economical plant part of Soybean.</li> <li>c) culture is used to raise virus free plants</li> <li>d) Nematode are In nature</li> </ul>	04
Q.2		wer the following. (any 6) Write ecological factor on Bajra	12
	-	Define cash crop.	
	c)	Write Nature of damage caused by lesser grain borrer	
		Write seed and sowing of Tomato crop	
		Control measure for pest of livestock.	
		Define Somatic Hybridization Write soil, climate of cabbage	
		Enlist the types of crop plant.	
Q.3	a) b) c)	wer the following. (Any 3)  Define the pest and describe the mechanical method of pest control.  Write the cultivation practices in sorghum crop  Describe the damage caused by rodent  Write the concept of genetic engineering	12
Q.4	a) b)	wer the following. (Any 2) Write soil, climate, seed and sowing, harvesting of wheat Write advantages and disadvantages of tissue culture technique Write agronomical practices of groundnut.	12
Q.5	a) b)	wer the following. (Any 2) Write agronomical practices of sugarcane Describe termites in brief with their colony organization Define seed technology explain classes of seed	12

Seat No.						Set	P
	•	(NEP C	BCS) Examination	n: N	agement) (Sem - III) (Ne /Iarch/April - 2025 Agrochemicals (230130	•	
		ursday, 15 To 01:30	5-May-2025 PM		Max.	Marks	: 60
Instru			tions are compulso to the right indicate		marks.		
Q.1 A	•	Pyrethru a) Cr	ct alternative. (MC m, a naturally occur ocus nrysanthemum	rring b)			30
	2)		 odegradable owth enhancer		Non-biodegradable Tranquilizer		
	3)	are	n component of hig  gh pressure pump etector		rformance liquid chromato Injector system All	graphy	,
	4)	a) Bo	f the following does oron kygen 16	_	ive NMR Spectra? Nitrogen-15 All		
	5)	Pesticide a) 1 c) 5	e can be divided int	o b) d)	4 3		
	6)	tempera a) Mi	<del>-</del>		l, where condition such as ess favorable for Chemical Not	moistu	re,
	7)	a) Ph b) Bi	sed in narmaceutical chemochemical analysis nemical analysis	nistry	,		

		8) In mass spectroscopy the compound in vapour state is	
		bombarded with energy. a) 17eV b) 70eV	
		c) 13eV d) 50eV	
		2, 333	
	B)	Fill in the blanks.	04
		1) type of radiations are observed in NMR spectroscopy.	
		<ul><li>2) Transfer is the process in which the pesticide is</li><li>3) The actual value of nuclear spin depends on and</li></ul>	
		number of nuclei.	
		4) HPLC stand for	
		,	
Q.2	Ans	swer the following question (Any Six)	12
	,	Used of HPLC.	
	-	Definition of pesticide.	
	-	Name of internal reference compound in proton NMR spectroscopy.	
	-	The most intensive peak in the mass spectrum is called.  Point and Non-point pollution.	
	•	What is the effect of pesticide residue in soil?	
		What is effect of pesticide on human life?	
		Explain Pesticide residue in water.	
Q.3	Ans	swer the following question (Any Three)	12
	a)	Explain Chemical degradation.	
	-	Explain photochemistry of pesticide.	
		Advantages of Thin layer chromatography.	
	u)	Explain microbial degradation.	
Q.4	Ans	swer the following question (Any Two)	12
		Schematic diagram of mass spectroscopy.	
		Sketch the PMR spectrum of the Ethanol	
	c)	Explain point and non - point pollution.	
Q.5		swer the following question (Any Two)	12
	•	How are pesticide harmful to the environment and human being?	
	b)	Describe the principle of HPLC and explain briefly various types of	
	c)	detectors used in HPLC. Shielding and Deshielding in NMR.	
	$\boldsymbol{\upsilon}_{\boldsymbol{J}}$	oniciding and besiliciding in Nivirt.	

Seat	Sat	D
No.	Set	

## M.Sc. (Agrochemicals and Pest Management) (Sem - III) (New) (NEP CBCS) Examination: March/April - 2025 Advances in Pest Control (2301302)

			(NE	Advances in Pes		-
•			-	y, 17-May-2025 1:30 PM		Max. Marks: 60
Insti	ructio			luestions are compulures to the right indic	-	marks.
Q.1	A)	Cho 1)		orrect alternative. ( m leaves is the exan Attractant Chemosterilant	nple of . b)	Repellant
		2)	Trial a) c)	•	b)	by insect for purpose Feeding none of above
		3)	a) c)	is included under Avicide Fungicide	b)	de Insecticide All of above
		4)		veen of batch Two leaves	of insection b)	Two insect
		5)	Antile of in a) c)	sect	dverse b) d)	effect of the host plant on the  Mating tolerance
		6)	The a) c)	Photomigration meth response of insec Photo reflection Phototaxic		Dioassay is performed by using  Dry film  photo merge
		7)	Che a) c)	mical which causes t Antixenons Pheromones	the ster b) d)	•
		8)	Azad a) c)	directin is chemical c Mango Chilli	ompou b) d)	nd found in plant Cycus Neem

	B)	Fill in the blanks.	04
		a) Scientific name of Neem is	
		<ul> <li>b) Technique of growing the plant in water by using nutrient material is called as</li> </ul>	
		c) Pheromones released by one sex but elicits response in both sexes of species is called as	
		d) is used for spraying dust formulation pesticide.	
Q.2	Ans	wer the following. (any 6)	12
	a)	Write the four types of Pheromones.	
	b)	Give the Taxonomic classification of the <i>chrysanthemum</i> .	
	c)	Define Bioassay.	
	d)	Define Hydophonics.	
	e)	Write Application of Neem as biofertilizer.	
	f)	Write two types of chemosterolants.	
	g)	Define Attractant.	
	h)	Write the type of sprayer.	
Q.3	Ans	wer the following. (Any 3)	12
	a)	Write the factors affecting the plant resistance.	
	b)	write the note on green chemistry in pesticide.	
	c)	Write the note on IPM.	
	d)	Define Repellant give any two examples of repellants.	
Q.4	Ans	wer the following. (Any 2)	12
	a)	Explain the cultural method and Mechanical of the pest control.	
	b)	Give the importance of Neem based preparation in insect pest	
		management.	
	c)	Explain in detail bio-efficacy of pesticide.	
Q.5	Ans	wer the following. (Any 2)	12
	a)	Explain insect insecticide resistance and resistance management.	
	b)	Explain type of damage caused by insect to plant and their estimation.	
	c)	Write the methods of Hydophonics.	

Seat No.					Set	P
M.	Sc. (Ag		nicals and Pest Ma BCS) Examination: Diseases of Crop I	Mai	-	
-	Date: N 11:00 A	-	19-May-2025 :30 PM		Max. Marks:	60
Instru	ictions:	, .	uestions are compulso res to the right indicat	•	marks.	
Q.1	•	) Weed	rrect alternative. (MCd control is met preventive biological	•		80
	2	a)	_ is the economic prod Wood Latex	b)	of wheat. Leaf extract Seed	
	3	cells	and/or tissue as a res	ult of	and/or function of the host plant a continuous irritation caused vironmental factor is known as	
		a) c)	plant disease fusarium	b) d)	Plasm Opara halstedi none of above	
	4	disea	se but care should be	take	r fungicides can help control the en as some labels do not allow used as food or feed	
		a) c)	Acitamapride Nuvan	b) d)	Benzer Thirum	
	5	a) b) c) d)	_ causes Anthracnose Colletotrichum trunca Gleosporium ampelfa Melanoconium fulger Wilt	atum agum	1	
	6	a)	seed are used as an a	b)	Sunflower	
		c)	Maize	d)	none of above	

		•	disea a)	ove and duse contro Chemica Biologica	ıl. al	b) d)	-		etnod of	
		8)	a)	wilt	da caused st	b)	root rot			
	B) F	1) 2) 3)	Leaf : Drip i Clear	rrigation r		control _ _ metho	diseas d of disease			04
Q.2	<ul><li>a) V</li><li>b) V</li><li>c) E</li><li>d) V</li><li>e) V</li><li>f) O</li><li>g) V</li></ul>	Write t Write t Enlist : Write t White Contro	the sy the co the co rust co rust co of met	ommon plangal disection of Portion of Portio	of onion D nysical con eases on o owdery m ous. ust of cast m of powd	ntrol met ur syllab illdew Si	hod of diseas	se.		12
Q.3	<ul><li>a) W</li><li>b) E</li><li>c) W</li></ul>	Write t Fobac Explai Write t	the caco co. n the the ge	ausal orga Rust of B	Bajra. mptoms ar	nptoms a	and manager		t of	12
Q.4	a) E b) E	Enlist : Enlist :	the di the di	iseases o iseases o	•	ne write	in detail Rus details Red ro ny one.			12
Q.5	<ul><li>a) E</li><li>b) V</li></ul>	Explai Vrite t	n the the di	diseases seases of			s Tikka of Gro dery mildew			12

Seat No.			Set P						
M.Sc. (Agrochemicals and Pest Management) (Sem - III) (Old) (CBCS)  Examination: March/April - 2025  Pesticide Residues and Toxicology (MSC26301)									
•	Day & Date: Thursday, 15-May-2025 Time: 11:00 AM To 02:00 PM  Max. Marks: 80								
Instru	Instructions: 1) Questions no. 1 & 2 are compulsory. 2) Attempt any Three Question from Q No.3 to Q No.7 3) Figures to the right indicate full marks.								
Q.1	A) Cho 1)	ose correct alternative. Pesticides enters in atm a) Spraying c) Handling							
	2)	poison affect the a) Corrosive c) Neurotics	nervous system of man. b) Irritants d) Cardiac						
	3)	Sterility in organisms is a) Zinc c) Mercury	caused due to b) Copper d) Manganese						
	4)	Which of the following ration?  a) gamma rays c) both a and b	adiations are used for the generations  b) X – rays d) none of these						
	5)	toxicology is us a) Environmental c) Irritants	sed in the detection of cause of mortality. b) Economic d) Cardiac poison						
	6)	The research institute o a) Mumbai c) Delhi	f toxicology is established in b) Pune d) Lucknow						

Metal involved in Minamata disease is \_\_\_\_\_

b) As

d) Hg

b) Contaminant

d) Corrosion

A component does not occur in nature but introduced by

7)

8)

Cd

Zn

Poison

Pollutant

common activity is called \_\_\_\_

a)

c)

a)

c)

		9)		ak-down of pesticides is ess is known as	dor	e by microorganisms this	
			a) c)	Bioamplification Biodegradation	-		
		10)	Easi a) c)	ly identified source or p Non point Water		of pollution is called as Point Air	
	B)	a) _ b) H c) T d) T e) _ b	lepat he ch he fu iolog	Ill form of WHO is toxicology is the study ical systems.	of he can  of h	ow drugs and chemicals affect obstance's concentration	06
Q.2	a) b)	Define and explain toxicology. What is bioconcentration? Write a note on cardiac poison.				16	
Q.3	Ans a) b)	Explain in detail HPLC technique for pesticide residue analysis.					<b>16</b>
Q.4	Ans a) b)	Answer the following.  a) Explain in detail pesticide residue water system.					16
Q.5	Ansa)	Expla of pe	iin in ( sticide			precipitation and photochemistry of toxicology.	16
Q.6	Ans a) b)	Expla	in in I	•		n of pesticide with two examples. es, coenzymes and nucleic acid.	16
Q.7	Ans a)		in in	<b>lowing.</b> detail gas chromatogra	phic	analysis of pesticide residues	16
	b)			s on: 1) Minamata 2) I	tai -	Itai disease	

Seat	Sat	D
No.	Set	

# M.Sc. (Agrochemicals and Pest Management) (Sem - III) (Old) (CBCS)

			Examination: M Advances In Pest C	•		
			urday, 17-May-2025 To 02:00 PM		Max.	Marks: 80
Insti	uctio	2	) Questions no. 1 & 2 are of Attempt any Three Quest) Figures to the right indicated	ion from Q		
Q.1	A)	Choo 1)	Sandwich method is the label between of the bare) two leaves	nown amou ch of insect	insect	10
		2)	pests are controlle a) Stored grain c) Household	•	stock	
		3)	Chemicals that cause instowards their source are a) Antifeedants c) Repellent	called b) Che		
		4)	is the cultural methal hand picking c) Spraying	-	ing	
		5)	Radiant energies are the a) physical c) Natural	b) Che		
		6)	DDT inorganic synthetic i a) Paul Muller c) Paul Mullter	b) W.H	vas discovered by H. Luckman ıl Waller	•
		7)	is included under tage a) Avicides c) Fungicides	b) Inse	es. ecticides of the above	

		8)	both the sexes of the species is called as  a) Sex pheromone b) Aggregation pheromone c) Communication pheromone d) Symbiotic association	
		9)	Hydraulic energy sprayer is a type of  a) air sprayer b) blast sprayer  c) power sprayer d) rocking sprayer	
		10)	In polygenic resistance the resistance is governed by a) Single gene b) Many gene c) Various gene d) Small gene	
	B)	a) b) c) d)	In toxicity of insecticides how many numbers of entry routes are there  Bucket pump sprayer have shaped handle.  Yellow sticky trap is used to control  Chemicals that cause insects to make oriented movements towards their source are called as  IPM stands for  Trichogramma is parasitoid.	06
Q.2	a) b) c)	<ul> <li>(nswer the following.</li> <li>(a) Write a note on Antixenosis and Antibiosis.</li> <li>(b) Write a note on power operated sprayer.</li> <li>(c) Define Bioassay and write a note on sandwich method of bioassay.</li> <li>(d) Write a note on types of nozzles.</li> </ul>		
Q.3	Ans a) b)	•		
Q.4		<ul> <li>a) Give importance and side effects of Neem based preparations in insect pest management.</li> <li>b) Write a note on attractants and repellents.</li> </ul>		
Q.5	Ans a) b)	Expla	he following.  ain in detail Host plant resistance.  in brief mode of action of neem in plant protection.	16
Q.6	Ans a)		e bio-efficacy of pesticides and explain any five methods of	16
	b)		e IPM. Explain the cultural method of pest control.	

#### Q.7 Answer the following.

16

- a) b)
- Define hydroponics. Write a note on hydroponic technique. Explain with neat labeled diagram parts of Knapsack type of sprayer.

Seat No.					Set	P
М.	Sc. (Agro		als and Pest Man Examination: Mar eases of Crop Pla	ch/		3)
	Date: Mo 11:00 AM		-May-2025 0 PM		Max. Marks	: 80
Instru	2	) Attempt	ons no. 1 & 2 are cor t any Three Questio to the right indicate	n fro	m Q No.3 to Q No.7	
Q.1	A) Choc 1)	Disease a) pi	reventive	met b)	hod of disease control. chemical black spot	10
	2)		s the economic prod lood atex	b)	of rice. Leaf extract Seed	
	3)	cells an	d/or tissue as a resu	ılt of	and/or function of the host plant a continuous irritation caused ironmental factor is known as	
		, .	lant disease usarium	,	plasmopara halstedi none of above	
	4)	disease	but care should be	take	fungicides can help control the n as some labels do not allow used as food or feed	
		-	citamapride uvan	b) d)	Benzer Thirum	
	5)	a) C b) G c) M	causes Anthracnose Colletotrichum trunca Gleosporium ampelfa Melanoconium fulgen Vilt	tum gum		
	6)	a) B	seed are used as an ajra laize	b)	urpose. Sunflower	

		7)	a) b) c)	Caused due to fungu Gleosporium ampel Alternaria alternate Puccinia carthami Ceratocystis fimbria	fagum	_	
		8)	disea	ises'.		d finally seedlings die in	
			,	Root rots Rust		Alternaria alternate Cercospora	
		9)	disea	se control		ed plants is method of	
			•	Chemical Biological	•	Physical none of above	
		10)	a)	<i>go Candida</i> caused d Wilt White rust	b)	Root rot Leaf spot	
	B)		n the b	<b>planks.</b> is Type of fur	·	·	06
		2)	Clear	rigation method is c	metho	d of disease control.	
		5)	Bajra	spot of castor caused is Type of cross seed born di	p.		
Q.2	a)	Write Write Enlist	the sy the co t the fu	owing.  mptoms and control ommon control methological diseases on outling and control own.	od of di r syllab	sease.	16
Q.3	Ans a)	Write	the ca	owing. ausal organism, symp nt wilt of Tobacco	otoms,	Disease cycle and	16
	b)		_	Rust and grain smut	of Baj	a.	
Q.4	a)	Enlist	t the di	owing. iseases of Sorghum e eneral symptoms and			16
Q.5	Ans a) b)	Write	the di	owing. seases of rice details seases of Groundnu		on rice. s Tikka of Groundnut.	16

Q.6	<ul><li>Answer the following</li><li>a) Explain the diseases of Gram.</li><li>b) Enlist the diseases of sugarcane write details Red rot.</li></ul>	16
Q.7	<ul> <li>Answer the following</li> <li>a) Explain the diseases of Beans.</li> <li>b) Enlist the diseases of Cotton explain any one .</li> </ul>	16

Seat	Sat	D
No.	Set	r

## M.Sc. (Agrochemicals and Pest Management) (Sem - IV) (New) (NEP

		CBCS) Examination: Manufacture of Agroo		-
•		e: Wednesday, 14-May-2025 0 PM To 05:30 PM		Max. Marks: 60
Instr	uctio	ns: 1) All questions are compulso 2) Figures to the right indicat	-	marks.
Q.1	-	Choose correct alternative. (Mo Distillation is a process in which from the mixture. a) Water c) Volatile	b)	component are separated  Solid Gas
	2)	Drying involves the removal of r the solute. a) Solute c) Moisture	b)	ely small amount of from Solution All of these
	3)	Captan is manufactured by usin a) Phthalic acid c) Phthalimide	g b) d)	 Tetrahydrophthalimde None
	4)	The BSI kitemark is applied to _a) Mechanical c) Electrical	-	Chemical
	5)	A generalized fragment usually is a) Synthon c) Reagent		n produced by a disconnection  Synthetic equivalent  Target molecule
	6)	Gas absorption is known as a) Absorption of gas in solid b) Absorption of gas in solid su c) Absorption of gas in liquid p d) All of these	ırface	
	7)	The performance of an evapora a) Economy c) Capacity	tor is b) d)	evaluated in terms of Efficiency Capacity & Economy
	8)	Which of the following is occupa a) Asthma c) Dermatitis	ntiona b) d)	

	B)	Fill in the blanks:	04
		<ul> <li>a) Two solvents involved in solvent extraction should be</li> </ul>	
		b) Synthon is species.	
		c) Rogar is also called as	
		d) Asthma is disease.	
Q.2	An	swer the following. (Any Six)	12
	a)	Write the principle of Extraction.	
	•	Write the synthesis of maneb.	
	•	What causes asthma and pulmonary diseases?	
	,	What is distillation?	
	,	What is quality Control?	
	,	What is retro synthetic analysis?	
		Give the application of chlorothalonil.	
	n)	What is chemo selectivity?	
Q.3	An	swer the following. (Any Three)	12
	a)	Write a note on industrial safety.	
	b)	Describe types of disconnections.	
	c)	Explain types of dryers.	
	d)	Write note on occupational cancer.	
Q.4	An	swer the following questions (Any Two)	12
	a)		
	-	evaporator.	
	b)	<b>,</b> 1	
	c)	Write note on handling of chemicals.	
Q.5	An	swer the following questions (Any Two)	12
	a)	Explain synthesis & unit process of dimethoate.	
	b)	Explain in detail working of centrifuge machine.	
	c)	Write note on occupational health management & industrial safety.	

Seat	Sat	Р
No.	Set	

# M.Sc. (Agrochemicals and Pest Management) (Sem - IV) (New) (NEP CBCS) Examination: March/April - 2025 Agro-Based Marketing Management (2301402)

			Agro-Based Marketing Mana	agement (2301402)	
•			Friday, 16-May-2025 PM To 05:30 PM	Max. Marks:	60
Instr	uctio	ons:	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full</li> </ol>	marks.	
Q.1	A)		,	<del>-</del>	80
		2)	From the following is not a a a) Geographic b) c) Product quality d)	Behavioral	
		3)	a) Financial forecast b) c) Trend analysis d)	Data analysis	
		4)	is a key challenge in rural range a) High literacy rates b) c) Limited infrastructure d)	Easy access to technology	
		5)	Which of the following is a benefit a) Increased website traffic b) Improved customer engagement c) Enhanced brand awareness d) All of the above	-	?
		6)	<ul> <li>is social media marketing.</li> <li>Using traditional media to pror</li> <li>Using social media platforms t</li> <li>Creating print advertisements</li> <li>Conducting market research</li> </ul>	mote products to promote products or services	
		7)	<ul> <li>a) To increase crop yields</li> <li>b) To promote and sell agriculture</li> <li>c) To manage farm operations</li> <li>d) To develop new farming technic</li> </ul>		

		<ul> <li>a) Increased farm productivity</li> <li>b) Improved product quality</li> <li>c) Enhanced customer satisfaction</li> <li>d) All of the above</li> </ul>	
	B)	<ol> <li>State whether the following statement true or false.</li> <li>Social media marketing is a form of offline marketing.</li> <li>Rural consumers are highly influenced by traditional media.</li> <li>Green marketing focuses on promoting product that is environmentally friendly.</li> <li>Traditional values and cultural norms have little influence on consumer behavior in India.</li> </ol>	04
Q.2	Ans a) b) c) d) e) f)	Agro-marketing Rural Market Social Media Marketing Market Green Marketing Market Segmentation Consumer Behavior Market Research	12
Q.3	Ans a) b) c) d)	wer the following (Any Three) Importance of Marketing Problems of Rural Market Nature of Green Marketing Importance of Social Media Marketing	12
Q.4	Ans a) b) c)	wer the following (Any Two) Functions of Marketing Elements of Marketing Environment Factors Determining the Consumer Behavior	12
Q.5	Ans a) b) c)	wer the following (Any Two) Base of Market Segmentation Role of marketing in agro-based business Steps of Marketing Research	12

Seat No.			Set	Р
			ochemicals and Pest Management ) (Sem - IV) (New) (NE CBCS) Examination: March/April - 2025 es in Pest Control and Diseases of Crop Plant (2301405)	
•			Max. Mark If To 05:30 PM	s: 60
Instru	ıctic		) All questions are compulsory.  2) Figures to the right indicate full marks.	
Q.1	A)		Leaf spot caused due to fungus  a) Fusarium oxysporium b) Alternaria alternate c) Alternaria solani d) none of above	08
		2)	Which of the following is an example of a biocontrol agent?  a) Rotenone b) Bacillus thuringiensis c) DDT d) Carbaryl	
		3)	Seed treatment is method of disease control a) Preventive b) Post emergence c) Leaf spot d) Cercospora	
		4)	Powdery mildew caused due to  a) Odium sp. b) Cercospora sp. c) Both 'a' and 'b' d) none of above	
		5)	What is the term for the use of a natural predator or parasitoid to control a pest?  a) Genetic engineering b) Biological control c) Chemical control d) Mechanical control	
		6)	Powdery mildew caused due to  a) Odium sp. b) Cercospora sp. c) both a' and b' d) none of above	
		7)	Which of the following is a natural enemy used in biological control?  a) Chemical pesticide b) Natural predator	

d) Herbicides

b) Medicinal

d) Ornamental

c) Synthetic insecticide

a) Cash crop

c) Food

8) Gladiolus flowers are used as an \_\_\_\_ purposes.

	B)	<ul> <li>Fill in the blanks</li> <li>1) Brain horomon secreted by by gland</li> <li>2) Use the fungicide to control diseases</li> <li>3) Wilt are caused</li> <li>4) chitin is made of</li> </ul>	04
Q.2	<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li><li>g)</li></ul>	Define the predator Enlist and write its causal organism on diseases of Teak plant Write the types of diseases Causal organism on wilt of Guava Define Microbial control Write the types of Microbial Pathogen Enlist and write its causal organism on diseases of chrysanthemum Write the chemical formula of BPU	12
Q.3	a) b) c)	Write the chemicals based on insect cuticle. Common control method of fungal diseases Give Role of predator in pest controlling Leaf spot of Sapota	12
Q.4	a) b)	Write the diseases of Ber explain any one. Give Role of entomophagus insect in management of insect pest Write concept of juvenile and moulting hormones	12
Q.5	a) b)	wer the following.(Any two) Write the powdery mildew and leaf spot of Mango crop Write the diseases of Pomegranate explain any one Write a note on biological control and give its example	12

Seat	Sat	D
No.	Set	

# M.Sc. (Agrochemicals and Pest Management ) (Sem - IV) (Old) (CBCS)

			Agro-l	Examination: M Based Marketing I		April - 2025 Jement (MSC26401)	
				day, 14-May-2025 6:00 PM		Max.	Marks: 80
Insti	ructio	2	2) Atter	stions no. 1 & 2 are on the street any Three Questres to the right indicates.	tion fro	m Q No.3 to Q No.7	
Q.1	A)	Cho		•	main f	eature of market. transportation	10
		2)	Com a) c)	-	b)	ich affect the price of prod external all of these	uct.
		3)		et research	n to dit b) d)	-	ı as
		4)	a) c)	•	b)	of living to the societies.  Production  Purchasing power	
		5)	Prod a) b) c) d)		ce is ar	example of	
		6)	a) c)	_ Problems are/is fa Competition Govt. Policy	ced by b) d)		
		7)	Agro a) b) c) d)	based marketing ma Social Developmen growth of agro sect increase in sales none of above	nt	nent used for	

		8)	Produ	ucer to Consumer _	ch	annel.		
			a)	one level	b)	two level		
				three level				
		9)	The t	erm market is derive	ed from	the	word	
			a)	Sanskrit	b)	Persian		
			c)	Latin	d)	English		
		10)	The g	goods which are pur	chased	by the cons	sumer for improve	
				lard of life is known		goods.		
			a)	industrial	b)	consumer		
			c)	luxurious	d)	unsought		
	B)	Fill in	the b	olanks.				06
		a)		erm refers no	-		•	ities
				ouyers and sellers w	ho are	indirect com	npetition with one	
		L۱	anoth		- II	al!4la a <b>f</b> a		
		D)		erm is genera n externally apart fro				
				ng level of sales to I	-		ing for raising the	
		c)		nels of is a s	_		organization involved	d in
		-,		rocess of making a		•	•	
				umption.				
		d)		siness means use o	f	for purchas	se & sales of goods	
		,		vices.				
				erally the price of lux				
		f)	meı	hird stage of produc	t life Cy	cie is relate	u to	
Q.2	Ans	wer th	ne foll	owing.				16
	a)	Natur	e of m	narketing				
	b)	• •		nsumer goods				
	c)			rketing planning pro	cess.			
	d)	impoi	rtance	of price in 4p's				
Q.3	Ans	wer th	ne foll	owing.				16
	a)	Impoi	rtant o	f marketing				
	b)	Probl	ems o	f agro base marketii	ng			
Q.4	Ans	wer th	ne foll	owing.				16
	a)			types of market.				
	b)	•		ious stages in produ	ct life c	ycle.		
Q.5	Ans	wer th	ne foll	owing.				16
	a)			s for Shubham Agro	Service	<b>)</b> .		
	b)		-	nsumer behavior and			ecting consumer	
		behav	vior?					

Q.6	Answer the following					
	a)	Role of Marketing in agro based business.				
	b)	Types of e-business				
Q.7	Ans	swer the following	16			
	a)	Describe the marketing research procedure.				
	b)	Explain the base of Market Segmentation.				

Seat	Sat	D
No.	Set	r

# M.Sc. (Agrochemicals and Pest Management) (Sem - IV) (Old) (CBCS)

		Examination: Ma Advances in Pest Co		-	
		riday, 16-May-2025 M To 06:00 PM		N	Max. Marks: 80
Instructi	4	1) Questions no. 1 & 2 are o 2) Attempt any Three Quest 3) Figures to the right indica	ion fro	m Q No.3 to Q No.7	
Q.1 A)	Cho 1)	ose the correct answer from is a type of parasiting another parasitoid.	-		10 cks
		<ul><li>a) super parasitism</li><li>c) hyper parasitism</li></ul>			
	2)	Light activated pesticide of a) lamp c) fertilizers	b)	ne effect on pest by usi water sunlight	ng
	3)	A is a free-living or smaller than him.  a) parasite	ganisı b)		ı is
	4)	c) parasitoid  Biological control refers to as for the managenta) pathogens c) parasitoid	nent o	f insect pests.	1
	5)	Trichogramma is a) Egg parasitoid c) Predator	b) d)	Larval parasitoid All the above.	
	6)	Somaclonal variation refe progenies. a) Anther culture c) Tissue culture	rs to v b) d)	Root culture	derived
	7)	In genetic engineering, pr can be into a simpl a) Isolated c) Cloned		caryotic system. Sequenced	organism

		8)	a) b) c)	e full form of NPV is Nuclear Polyhedrosis V Nuclear Polyhy Virus Nuclear Porous Virus none of the above	 'irus		
		9)	a)	arm pheromone released feeding sex	by ir b) d)	-	
		10)		insecticidal formulations Contact poison Resperatory poison	b)	Stomach poison	
	B)	Fill i 1) 2) 3) 4) 5) 6)	Use The Inse	control. full form of "Bt"ect having complete life c	ruses ycle	s against pest is the example of	06
Q.2	a) b)	Write Expl Gene	e a n ain ir etica	ollowing. ote on pheromones. n short attractants and re I method of pest control. Polyhedrosis Virus.	pella	nts.	16
Q.3	Ans a) b)	Desc man Desc	cribe agen cribe	nent.	of g	ogical applications in pest enetic engineering to introduce genic plants.	16
Q.4	Ans a) b)	Defir pest Defir	ne pa man ne th	agement.	ain th	ote role of parasitoid in insect ne different techniques used in e.	16
Q.5	Ans a) b)	Desc	cribe	ollowing. the importance of IPM in in detail insect growth re			16

SLR-ZA-24	4
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#### Q.6 Answer the following

16

- a) Explain in detail use of Bacteria in pest management.
- **b)** Write a note Light activated pesticides.

#### Q.7 Answer the following

16

- a) What are the semiochemicals? Discus the importance of pheromones.
- b) Define Somaclonal variability. Explain use of Fungus in pest control.

Seat	Sat	D
No.	Set	

## M.Sc. (Agrochemicals and Pest Management) (Sem - IV) (Old) (CBCS)

		Mai	Examination: nufacture of Agr		April - 2025 cals (MSC26403)	·		
	Date: Tu 03:00 PN		r, 20-May-2025 6:00 PM		Max. M	Marks: 80		
Instru	2	2) Atte	stions no. 1 & 2 are mpt any Three Que res to the right indi	estion fro	m Q No.3 to Q No.7			
Q.1 <i>A</i>	-	ose the correct answer from options given below: Gas absorption is known as a) Absorption of gas in solid b) Absorption of gas in solid surface c) Absorption of gas in liquid phase d) All of these						
	2)		ominantly as called Steriospecific	d r	Public union	I		
	3)		rious stages of ma Failure	nufactur b)	Optimizing	sk		
	4)	Chlo	rothalonil is used a	ıs				
		a) c)	Herbicide Rodenticide	-	Fungicide Insecticide			
	5)	-	ng involves the rem solute. Solute Moisture	noval of r b) d)	elatively small amount of Solution All of these.	from		
	6)	Capt a) c)	an is manufactured Phthalic acid Phthalimide	-	g Tetrahydrophthalimde None			
	7)		od and agriculture n formulated by BIS 2330 standards 2610 standards	s? b)	ow many Indian standards h 2150 standards 2510 standards	as		

		8) The performance of an evaporator is evaluated in terms of					
		a) Economy b) Efficiency c) Capacity d) Capacity &Economy					
		<ol> <li>A generalized fragment usually an ion produced by a disconnection is</li> </ol>					
		a) Synthon b) Synthetic equivalent c) Reagent d) Target molecule					
		<ul> <li>Distillation is a process in which component are separated from the mixture.</li> <li>a) Water b) Solid</li> <li>c) Volatile d) Gas</li> </ul>					
	B)	Fill in the blanks.  1) Rogar is also called as  2) Synthon is Species  3) Two solvent involved in solvent extraction should be	06				
		<ul> <li>The liquid which undergoes decomposition at the boiling points can be separated by</li> <li>Development is the Step between applied research and production.</li> <li>Maneb is manufactured by using ethylene diamine and</li> </ul>					
Q.2	a) b) c)	Describe purpose of HRD. Describe contaminates crystallizer. Write note on chemo selectivity. Write a note on spray dryer.					
Q.3	a)	Swer the following.  Define disconnection. Explain different types of disconnections.  Describe R & D laboratory specification.					
Q.4	a)	nswer the following.  a) Write synthesis & unit process of phosphamedon.  b) Explain gas absorption in towers.					
Q.5	a)	<ul> <li>Answer the following.</li> <li>a) Describe solid - liquid and liquid - liquid extraction.</li> <li>b) Explain health education for workers.</li> </ul>					

Q.6	Answer the following						
	a)	Explain the small scale industry, administration & planning of small scale industry.					
	b)	Define synthon, synthetic equivalent, FGI & Target molecule.					
Q.7	Ans	wer the following	16				
	a)	Explain synthesis & unit process of dimethoate.					
	b)	Write note on BIS & ISI specification and standard.					

Seat No.						Set	Р	
М.\$	Sc. (Ag		icals and Pest Mana Examination: Mard seases of Crop Plan	:h/A	pril - 2025	Old) (CBCS	5)	
•	Day & Date: Thursday, 22-May-2025 Max. Marks: 80 Time: 03:00 PM To 06:00 PM							
Instru	ctions:	2) Atten	tions no. 1 & 2 are com npt any Three Question es to the right indicate t	fror	n Q No.3 to Q No.7			
Q.1 <i>i</i>	A) Ch 1)	Carbe a) b) c)	e correct answer from endazim 50% WP is Herbicide Broad spectrum contac Systemic black spot		_		10	
	2)	b) c)	causes Anthracnose of Wilt Gleosporium ampelfag Melanoconium fulgenio Collectotrichum gleosp	um um				
	3)		ery mildew caused due Odium sp. both'a'and 'b'	to _ b) d)	Cercospora sp. none of above			
	4)	Leaf	spot caused due to funç	gus _				
		b)	Fusarium oxysporium Alternaria alternate Alternaria solani none of above					
	5)	a) b) c)	rot of sweet potato cau Gleosporium ampelfag Alternaria alternate Synchytrium endobioti Ceratocystis fimbriata	jum	due to fungus	_		
	6)	Gladi a) c)	olus flowers are used a Ornamental Edible	b)	purposes. Medicinal None of above			

		7)	a)	_ is the eco Wood Latex	nomic proc	b)	f Rubber tree. Leaf extract None of above		
		8)	a)	treatment i Preventive Leaf spot	9	b)	of disease Post emergence Cercospora		
		9)	a)	olus flowers Ornament Edible	al	b)	puroposes Medicinal None of above		
		10)	a)	Uncinula r	ecator	b)	ed due to Cercospora sp. None of above		
	B)	a)	the blanks.  Use the to control fungal diseases  Disease free planting material is method of disease control.						
		d) e)	White Seed	rium are ca Rust cours and soil ar spot are ca	se due to _ e inf	ectio			
Q.2	a) b) c)	Write Comr Enlist	wer the following.  Write symptoms and control on powdery mildew of cucurbits  Comment on the Downy mildew on onion  Enlist and write its causal organism on diseases of Forage crop plant  Common control method of fungal dseaases						
Q.3	<ul><li>Answer the following.</li><li>a) Write the diseases of Chili explain any one.</li><li>b) Explain the Downey mildew and White rust of Crucifies.</li></ul>					16			
Q.4	<ul> <li>Answer the following.</li> <li>a) Enlist the diseases of Pomegranate write brief Anthracnose.</li> <li>b) Write symptoms and control measure on Anthracnose and stem rot of papaya.</li> </ul>					<b>16</b> of			
Q.5	Ans a) b)	Expla	in the	-	-	_	I diseases on crop plant. nildew on rose.	16	

Q.6	<ul><li>Answer the following</li><li>a) Write the Anthracnose and leaf spot of Mango crop</li><li>b) Write the diseases of Pomegranate explain any one</li></ul>					
Q.7		wer the following  Explain brief leaf spot and Powdery mildew on Gladiolus	16			
	,	Explain brief Leaf spot and Powdery mildew on crop plant				