Total No. of Questions: 6

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Faculty of Agriculture

End Sem (Even) Examination May-2019 AG3CO13 Fundamentals of Entomology

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs. Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 (MC	CQs) s	should be writte	en in full instea	d of only a, b,	e or d.	
Q.1	i.	The largest cla	ss of the phylu	m arthropoda.		1
		(a) Crustacea	(b) Arachnida	(c) Insecta	(d) Symphyla	
	ii.	Generally, insects have pair of legs				1
		(a) 3	(b) 2	(c) 1	(d) 4	
	iii.	Scientific study of insects with surrounding environment is known as				1
		(a) Insect morphology (b) Insect Ecology				
		(c) Insect anat	omy	(d) Insect cyto	logy	
	iv.	Insects survive	by eating othe	r living animals	s through hunting, sucking	1
		blood or as int	ernal parasite a	re called.		
	(a) Herbivores (b) Carnivores (c) Omnivores (d) None of these					
	v. The concept of Integrated pest management (IPM) was first giv				(IPM) was first given by	1
		(a) Langstroth		(b) Stern and S	Stern	
		(c) Geierr and	Clark	(d) Smithwell		
	vi.	vi. In this method we used insecticides, attractants, repellents, g				
		inhibitors.				
		(a) Chemical r	nethods	(b) Physical m	nethods	
		(c) Biological	methods	(d) Legal meth	nods	
	vii.	Insecticide Ac	t was come in t	this year.		1
		(a) 1968	(b) 1868	(c) 1768	(d) 1928	
	viii.	Which insecticide is systemic insecticide.			1	
		(a) Phorate		(b) Dimethoate	e	
		(c) Carbaryl		(d) All of these	e	
	ix.	Scientific name of any insect pest consists.				1
		(a) Genus & fa	amily	(b) Genus & s	pecies	
		(c) Order & fa	mily	(d) Order &sp	ecies	
					рт	\sim

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	х.	Mostly moths and butterfly belongs to the order.	1	
		(a) Hemiptera (b) Orthoptera (c) Diptera (d) Lepidoptera		
Q.2	i.	Term Entomology & Arthropoda has been derived from which word respectively.	1	
	ii.	Write the four characters of class insect.	2	
	iii.	Write the modification/types of insect antennae with example.	5	
OR				
Q.3	i.	Write the name of abiotic factors of environment.	1	
	ii.	Define insect ecology and relation with agriculture entomology.	3	
	iii.	Write the effect of temperature, moisture, rainfall and light on insects.	4	
OR	iv.	What is the importance of insect ecology branch in agriculture entomology?	4	
Q.4	i.	Write the definition of Integrated Pest Management (IPM).	2	
	ii.	Describe the tools / components of Integrated Pest Management (IPM).	6	
OR	iii.	Write the importance of chemical control and effect of chemicals of human being.		
Q.5	i.	What is the limitation of insecticide Act?	2	
	ii.	Write the 4 name of contact insecticides.	2	
	iii.	Describe about the application techniques of spray fluids.	4	
OR	iv.	Write about the chemical methods of insect control with suitable example of insecticide.	4	
Q.6		Attempt any two:		
	i.	Enlist the 8 order name with their suitable example.	4	
	ii.	Write the main characteristics of order orthoptera.	4	
	iii.	Write the importance of binomial nomenclature in agriculture entomology.	4	

Marking Scheme AG3CO13 Fundamentals of Entomology

Q.1	i.	The largest class of the phylum arthropoda.		1		
		(c) Insecta				
	ii.	Generally, insects have pair of legs		1		
		(a) 3	. • 1	1		
	iii.	Scientific study of insects with surrounding environ (b) Insect Ecology	ment is known as	1		
	iv.	Insects survive by eating other living animals throug	h hunting sucking	1		
	1 V .	blood or as internal parasite are called.	ii nunung, sucking	1		
		(b) Carnivores				
	v.	The concept of Integrated pest management (IPM) was first given by				
		(c) Geierr and Clark	was mst green e j	_		
	vi.	In this method we used insecticides, attractants,	repellents, growth	1		
		inhibitors.				
		(a) Chemical methods				
	vii.	Insecticide Act was come in this year.		1		
		(a) 1968				
	viii.	Which insecticide is systemic insecticide.		1		
		(d) All of these				
	ix.	Scientific name of any insect pest consists.		1		
		(b) Genus & species				
	х.	Mostly moths and butterfly belongs to the order.		1		
		(d) Lepidoptera				
Q.2	i.	Entomology	0.5 mark	1		
Q.2	1.	Arthropoda	0.5 mark	1		
	ii.	Four characters of class insect 0.5 mark for each	(0.5 mark * 4)	2		
	iii.	Modification/types of insect antennae with example		5		
	1111.	0.5 mark for each	•			
OR	iv.	Modification of insect's mouthparts	2.5 marks	5		
		Examples	2.5 marks			
Q.3	i.	Name of abiotic factors of environment.		1		
-		0.5 mark for each	(0.5 mark * 2)			
	ii.	Insect ecology and relation with agriculture entomo	logy	3		
			2 marks			

		Example	1 mark	
	iii.	Effect of temperature, moisture, rainfall and light on insects.		
			3 marks	
		Example	1 mark	
OR	OR iv. Importance of insect ecology branch in agriculture entomological			4
		0.5 mark for each	(0.5 mark * 8)	
Q.4	i.	Definition of Integrated Pest Management (IPM).		2
~ ··	ii.			
	111.	1 mark for each with example	(1 mark * 6)	6
OR	iii.	Importance of chemical control	3 marks	6
OIC	1111.	Effect of chemicals on human being.	3 marks	U
		Effect of elicilicats on numan being.	5 marks	
Q.5	i.	Limitation of insecticide Act		2
		0.5 mark for each	(0.5 mark * 4)	
	ii.	Any 4 name of contact insecticides.		2
		0.5 mark for each	(0.5 mark * 4)	
	iii.	Application techniques of spray fluids.	2 marks	4
		Example	2 marks	
OR	iv.	Chemical methods of insect control	2 marks	4
		Example of insecticide.	2 marks	
		•		
Q.6		Attempt any two:		
	i.	Eight order name	2 marks	4
		Their example.	2 marks	
	ii.	Characteristics of order orthoptera.		4
		0.5 mark for each	(0.5 mark * 8)	
	iii.	Importance of binomial nomenclature in agriculture entomo		4
		Binomial nomenclature 2 marks		
		Importance	2 marks	
		Importanico	2 marks	
