Total No. of Questions: 6



## Faculty of Agriculture

## End Sem (Even) Examination May-2022

AG3CO47 Management of Beneficial Insects

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

**Duration: 3 Hrs. Maximum Marks: 50** 

No of Q.

			ernal choices, if any, are indicated. Ans tood of only a board	wers o
		s) should be written in full instead of only a, b, c or d.		1
Q.1	i.	Which of the following is ro		1
		(a) Apis dorsata	(b) Apis melifera	
		(c) Apis florea	(d) None of these	
	ii.	Antenna divided into how m	• •	1
		(a) Three (b) Four	(c) Two (d) Five	
	iii.	Caterpillar is the larval stage		1
		(a) Silkworm	(b) Lac Insects	
		(c) Ants	(d) Honeybee	
	iv.	'Bombyx mori' is the scientification		1
		(a) Honeybee	(b) Lac Insects	
		(c) Silkworm	(d) Butterfly	
	V.	Pebrine disease caused by	·	1
		(a) Protozoa (b) Bacteria	(c) Fungi (d) Virus	
	vi.	American foul brood disease effective against:		1
		(a) Honeybee	(b) Lac Insects	
		(c) Silkworm	(d) Butterfly	
	vii.	Which of the following is an	Insecticide?	1
		(a) Monocrotophos	(b) Mancozeb	
		(c) Maneb	(d) BM	
	viii.	'Laccifer lacca' is belong to:		1
		(a) Honeybee	(b) Lac Insects	
		(c) Silkworm	(d) Butterfly	
	ix.	ix. 'Zygogramma bicolorata' effective against which weed?		1
		(a) Congress grass	(b) Lantana camera	
		(c) Opuntia sp	(d) None of these	
			]	P.T.O.

[2]

	Χ.	Beetle and Weevil belong to which order?	1	
		(a) Odanata (b) Isoptera (c) Diptera (d) Coleoptera		
Q.2	i.	Define Metamorphosis.	1	
	ii.	Give the scientific classification of Honeybee.		
	iii.	Explain different species of honeybee and their characters.		
OR	iv.	Explain communication and dance of honeybee.		
Q.3	i.	Define stifling.	1	
	ii.	Write short notes on morphology and biology of silkworm.	3	
	iii.	Explain the types of silkworms.	4	
OR	iv.	Give the classification of mulberry silkworm is based on voltinism and geographical condition.		
Q.4	i.	Define Rearing, mounting and harvesting of cocoons.	2	
	ii.	Explain the Natural Enemy of Silkworm.	6	
OR	iii.	Explain the major natural enemy of Honeybee.	6	
Q.5	i.	Give and explain any three lac and its form.	2	
	ii.	Why Lac cultivation is necessary.	2 2 4	
	iii.	Explain lac strain.	4	
OR	iv.	Write down the major natural enemy of lac insect in brief.	4	
Q.6		Attempt any two:		
	i.	Write down the three methods of biological control.	4	
	ii.	Describe the weed killing agent.	4	
	iii.	What is parasitism? Classify?	4	

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## Marking Scheme AG3CO47 Management of Beneficial Insects

	Q.1	i.	Which of the following is rock bee?		1
		ii.	(a) Apis dorsata Antenna divided into how many parts?		1
			(a) Three		
		iii.	Caterpillar is the larval stage of  (a) Silkworm		1
		iv.	'Bombyx mori' is the scientific name of		1
			(c) Silkworm		
		v.	Pebrine disease caused by		
			(a) Protozoa		
		vi.	5		
			(a) Honeybee		4
		V11.	Which of the following is an Insecticide?		1
		Viii	(a) Monocrotophos 'Laccifer lacca' is belong to:		1
		V 1111.	(b) Lac Insects		•
		ix. 'Zygogramma bicolorata' effective against which weed?  (a) Congress grass		weed?	1
		х.	Beetle and Weevil belong to which order?		1
			(d) Coleoptera		
	Q.2	i.	Define Metamorphosis.	1 Mark	1
		ii.	Classification of Honeybee.	2 Marks	2
		iii.	Species of honeybee	3 Marks	5
			characters of Honeybee	2 Marks	
	OR	iv.	Communication	2 Marks	5
			Dance of honeybee.	3 Marks	
	Q.3	i.	Define stifling.	1 Marks	1
		ii.	Morphology of silkworm.	3 Marks	3
		iii.	Types of silkworms.	4 Marks	4
	OR	iv.	Classification of silkworm is based on voltinism	2 Marks	4
			Geographical condition.	2 Marks	
	Q.4	i.	Rearing, mounting and harvesting	2 Marks	2

	ii.	Natural Enemy of Silkworm.	6 Marks	6
OR	iii.	Natural enemy of Honeybee.	6 Marks	6
Q.5	i.	Lac form.	2 Marks	2
	ii.	Lac cultivation	2 Marks	2
	iii.	Lac strain.	4 Marks	4
OR	iv.	Natural enemy of lac insect	4 Marks	4
Q.6		Attempt any two:		
	i.	Biological methods	4 Marks	4
	ii.	Weed killing agent.	4 Marks	4
	iii.	Define parasitism	1 Mark	4
		Classification	3 Marks	

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