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Q.1

Faculty of Agriculture

End Sem Examination May-2024

AG3CO47 Management of Beneficial Insects

Programme: B.Sc. (Hons.) 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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

i.	i. Honeybee is belonging to phylum?		
	(a) Arthopoda (b) Chordata	(c) Nematoda (d) Mollusca	
ii.	Which of the following is kn	own as smallest bee?	1
	(a) A.cerena	(b) A. dorsata	
	(c) A. melifera	(d) A. florea	
iii.	Cultivation of mulberry is kr	nown as	1
	(a) Sericulture	(b) Moriculture	
	(c) Apiculture	(d) Casting	
iv.	Central Silk Board situated a	.t	1
	(a) Kanpur (b) Jharkhand	(c) Bangalore (d) Indore	
v.	The process of killing pupa i	nside cocoon is termed as	1
	(a) Mounting (b) Reeling		
vi.	• •	e scientific name of which disease?	1
	(a) Grasserie disease		
	(c) Muscardine disease		
vii.		akh in hindi which itself is derivative	1
	from word?		
		(c) Sanskrit (d) Urdu	
viii.	Immature lac also known as_		1
	(a) Stick lac (b) Phunki lac		
ix.		rm "biological control" to signify the	1
	use of natural enemies to cor	_	
	(a) H.S. Smith	(b) T.M. Morgan	
	(c) H. Brown	(d) H. Purkinie	

P.T.O.

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	х.	Which of the following is beneficial predator? (a) Helicoverpa armigera (b) Chrysoperla carnea (c) Both of these (d) None of these	1
Q.2	i. ii. iii.	Give the meaning and definition of Apiculture. Write the scientific position of rock bee. Write down the different species of honeybee with their charterers.	1 2 5
OR	iv.	Explain the caste and dance of honeybee in detail.	5
Q.3	i. ii. iii.	Define Supercedure. Write down the mulberry classification based on moults. Discuss the natural enemies of honeybee.	1 3 4
OR	iv.	Give the types of silkworms with their classification.	4
Q.4	i. ii.	Define swarming and absconding. Explain the major disease of silkworm in briefly.	2 6
OR	iii.	Describe any two: (a) Cultivation of mulberry plant (b) Biology of Silkworm (c) Voltinism (d) Harvesting of Cocoon	6
Q.5	i. ii.	Why lac cultivation is necessary? Enlist important forms of lac.	2 2
OR	iii. iv.	Discuss the major natural enemies of lac insect. Write down the type of strain with their months.	4 4
Q.6	i. ii. iii.	Attempt any two: Discuss the weed killing agents with example. Write down the methods of biological control. What is parasitism? Classify in detail.	4 4 4

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Marking Scheme

Management of Beneficial Insects (T) - AG3CO47 (T)

Q.1	i)	Honey bee is belonging to phylum?	1
	ii)	(a) ArthopodaWhich of the following is known as smallest bee?(d) A. florea	1
	iii)	Cultivation of mulberry is known as (b) Moriculture	1
	iv)	Central Silk Board situated at (c) Bangalore	1
	v)	The process of killing pupa inside cocoon is termed as (d) Stifling	1
	vi)	Bacillus bombysepticus is the scientific name of which disease? (b) Flacherie disease	1
	vii)	The term "Lac" synonyms Lakh in hindi which itself is derivative from word? (c) Sanskrit	1
	viii)	Immature lac also known as (d) Ari lac	1
	ix)	defined first used term "biological control" to signify the use of natural enemies to control insect pests. (a) H.S. Smith	1
	x)	Which of the following is beneficial predator? (b) <i>Chrysoperla carnea</i>	1
Q.2	i.	Give the Meaning and definition of Apiculture.	1
	ii.	Write the scientific position of Rock bee?	2
	iii.	Write down the different species of honey bee with their charterers.	5
OR	iv.	Explain the caste and dance of honey bee in detail. (Caste 3 marks and Dance 2 marks)	5
Q.3	i.	Define supercedure.	1

	ii.	Write down the mulberry classification based on moults.	3
	iii.	Discuss the natural enemies of honey bee. (One disease carry 1 marks)	2
OR	iv.	Give the types of silkworm with their classification. (One type carry 1 marks)	4
Q.4	i.	Define swarming and absconding. (Swarming 1 marks and absconding 01 Marks)	2
	ii.	Explain the major disease of silkworm in briefly.	(
OR	iii.	(One disease 1.5 marks) Describe any two: (Each of 3 Marks) (a) Cultivation of mulberry plant (b) Biology of Silkworm (c) Voltinism (d) Harvesting of Cocoon	(
Q.5	i.	Why lac cultivation is necessary?	2
	ii.	Enlist Important forms of lac. (One lac carry 1 marks)	2
	iii.	Discuss the major natural enemies of lac insect. (One natural enemy carry 2 marks)	4
OR	iv.	Write down the type of strain with their months. (One strain 1 marks)	2
Q.6		Attempt any two:	
	i.	Discuss the weed killing agents with example. (one agents carry 1 marks)	2
	ii.	Write down the methods of biological control.	2
	iii.	What is parasitism? Classify. (Definition 1 marks and classification 3 marks)	2

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