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Enrollment No.....



Faculty of Agriculture

End Sem (Even) Examination May-2022

AG3CO13 Fundamentals of Entomology

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.

- Q.1 i. In which type of head mouth parts have backward in position? **1**
(a) Hypognathus (b) Ophisthognathus
(c) Prognathus (d) None of these
- ii. Antenna divided into how many parts? **1**
(a) Three (b) Four (c) Two (d) Five
- iii. The basic component in the nervous system: **1**
(a) Neuron (b) Ganglion (c) Dendron (d) Six
- iv. Body lymph of Insects known as _____. **1**
(a) Hemocoel (b) Hemolymph
(c) Appendages (d) Casting
- v. Ecosystem term was coined by _____. **1**
(a) Smith (b) Tansley (c) Muller (d) Ronald
- vi. Which of the following is biotic factor? **1**
(a) Predator (b) Rainfall (c) Moisture (d) Humidity
- vii. Which of the following is an Insecticide? **1**
(a) Monocrotophos (b) Mancozeb
(c) Maneb (d) BM
- viii. Which of the following is cultural Method of IPM? **1**
(a) Winnowing (b) Pheromone Trap
(c) Ploughing (d) None of these
- ix. Who is called father of taxonomy? **1**
(a) Carl Linnaeus (b) HS Smith
(c) Aristotle (d) Paul Muller

P.T.O.

- x. Moth and butterfly belong to which order? **1**
(a) Odonata (b) Isoptera (c) Diptera (d) Lepidoptera

- Q.2 i. Define Entomology. **1**
ii. Write short notes on cuticle. **2**
iii. Give the modification of insect antenna with diagram. **5**
OR iv. Give the modification of insect legs with diagram. **5**

- Q.3 i. Define metamorphosis. **1**
ii. Write short notes on digestive system of insects. **3**
iii. Explain circulatory system in insects. **4**
OR iv. Describe the excretory system in insects. **4**

- Q.4 i. Define ecology and ecosystem. **2**
ii. Write down the abiotic factors and their effects on pest occurrence. **6**
OR iii. Write down the biotic factors and their effects on pest occurrence. **6**

- Q.5 i. Classify categories of pests. **2**
ii. Write short notes on recent methods of pest control. **2**
iii. Describe the different methods of IPM. **4**
OR iv. Give the classification of insecticides. **4**

- Q.6 Attempt any two: **4**
i. Define systematics, taxonomy and classification. **4**
ii. Write down the four insects order with their characters. **4**
iii. Write down any four insects with their systemic classification. **4**

Marking Scheme
AG3CO13 Fundamentals of Entomology

Q.1	i.	In which type of head mouth parts have backward in position? (b) Ophisthognathus	1
	ii.	Antenna divided into how many parts? (a) Three	1
	iii.	The basic component in the nervous system: (a) Neuron	1
	iv.	Body lymph of Insects known as____. (b) Hemolymph	1
	v.	Ecosystem term was coined by____. (b) Tansley	1
	vi.	Which of the following is biotic factor? (a) Predator	1
	vii.	Which of the following is an Insecticide? (a) Monocrotophos	1
	viii.	Which of the following is cultural Method of IPM? (c) Ploughing	1
	ix.	Who is called father of taxonomy? (a) Carl Linnaeus	1
	x.	Moth and butterfly belong to which order? (d) Lepidoptera	1

Q.2	i.	Definition of Entomology.	1
	ii.	Short notes on cuticle.	2
	iii.	Modification of insect antenna Diagram	2 marks 2 marks 5
OR	iv.	Modification of insect legs Diagram	2 marks 2 marks 5

Q.3	i.	Definition of metamorphosis.	1
	ii.	Short notes on digestive system of insects.	3
	iii.	Circulatory system in insects As per the explanation	4
OR	iv.	Excretory system in insects As per the explanation	4

Q.4	i.	Definition of ecology and ecosystem.	2
	ii.	Abiotic factors Their effects on pest occurrence	3 marks 3 marks 6
OR	iii.	Biotic factors Their effects on pest occurrence	3 marks 3 marks 6
Q.5	i.	Categories of pests.	2
	ii.	Short notes on recent methods of pest control.	2
	iii.	Different methods of IPM As per the explanation	4
OR	iv.	Classification of insecticides As per the explanation	4
Q.6		Attempt any two:	
	i.	Define systematics Taxonomy and classification	2 marks 2 marks 4
	ii.	Four insects order With their characters	2 marks 2 marks 4
	iii.	Any four insects With their systemic classification	2 marks 2 marks 4
