

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec-2023
AG3CO34

Principles of Integrated Pest & Disease Management
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.

- Q.1 i. Which will be the target parameter of green revolution technology in IPM? **1**
(a) Double pest (b) Single pest
(c) Multiple pest (d) All of these
- ii. What is the criteria for intervention adopted in current IPM approach? **1**
(a) Economic Injury Level (b) Economic Threshold Level
(c) EETL (d) All of these
- iii. Full form of NCIPM is _____. **1**
(a) National centre for Indian pest management
(b) National centre for integrated pest management
(c) National centre for individual pest management
(d) National centre for investment pest management
- iv. Which is an example of pest outbreak? **1**
(a) Whitefly in brinjal (b) Eriophyd mite in coconut
(c) Helicoverpa in okra (d) All of these
- v. As a intercrop in cauliflower crop, onion will reduce the level of incidence of _____. **1**
(a) Diamond blackmoth
(b) Cabbage borer
(c) Plant pathogenic nematode
(d) Onion thrips

[2]

- vi. Which is the best example of trap crop in cauliflower? **1**
 (a) Marigold (b) Mustard (c) Radish (d) Amaranth
- vii. Solar heat treatment of sorghum grain kills red flour beetle. It is a **1**
 _____.
 (a) Physical method (b) Mechanical method
 (c) Chemical method (d) None of these
- viii. Which one of following is the alternate host of rice gall-midge? **1**
 (a) Oat (b) Motha
 (c) Cyperus rotundus (d) Wild rice
- ix. The high application of one of the following nutrient will reduce **1**
 the incidence of shootfly in sorghum?
 (a) N (b) K (c) P (d) Ca
- x. Grease banding around mango tree trunk is necessary to control **1**
 _____.
 (a) Mango stem borer (b) Mango mealy bug
 (c) Mango hopper (d) Mango fruit fly
- Q.2 i. Write the definition of IPM. **1**
 ii. What are the principles of IPM? **2**
 iii. Write the complete history and concepts of IPM. **5**
- OR iv. Write the meaning of IPM, its importance and tools of IPM. **5**
- Q.3 i. What is host plant resistance? **1**
 ii. Classify the insect on the basis of their mouth part. **3**
 iii. Define economic threshold level with graph, also describe its **4**
 importance.
- OR iv. What are the different methods of pest control and disease **4**
 management, describe in detail?
- Q.4 i. What do you understand by the term ecological management of **2**
 crop environment?
- ii. Explain about the survey, surveillance and forecasting of diseases **6**
 with their importance in detail.
- OR iii. What are the key aspects of ecological management in the crop **6**
 environment?

[3]

- Q.5 i. Define of IPM module. **2**
 ii. How to validate IPM module? **2**
 iii. What kind of safety precautions should be used while using **4**
 pesticide?
- OR iv. How to implement IPM module and write its impact? **4**
- Q.6 Attempt any two:
- i. Write some important historical events in IPM. **4**
 ii. What are the legal implications of IPM? **4**
 iii. Explain social and political implication of IPM. **4**

Marking Scheme
Principles of Integrated Pest & Disease Management (T) -
AG3CO34 (T)

Q.1	i)	(b). Single pest.		1
	ii)	(b). Economic Threshold Level.		1
	iii)	(b). National centre for integrated pest management		1
	iv)	(d). All of the above.		1
	v)	(a). Diamond backmoth.		1
	vi)	(b). Mustard..		1
	vii)	Solar heat treatment of sorghum grain kills red flour beetle. It is a.....		1
	viii)	(a). Physical method.		1
	ix)	(d). Wild rice.		1
	x)	(c). P.		1
		(b). Mango mealy bug.		1
Q.2	i.	Definition of IPM	(As per explanation)	2
	ii.	Principles of IPM	(As per explanation)	5
	iii.	History	3 Marks	5
		Concept	2 Marks	
OR	iv.	Importance	2 marks	
		Tools	3 Marks	
Q.3	i.	Plant resistance	(As per explanation)	1
	ii.	Insect on the basis of their mouth part	(As per explanation)	3
	iii.	Definition with graph	2 marks	4

OR	iv.	Importance Different methods like... chemical etc.	2 marks (As per explanation)	4
Q.4	i.	Ecologicalenvironment	(As per explanation)	2
	ii.	Survey	2 Marks	6
		Surveillance	2 Marks	
		Forecasting	2 Marks	
OR	iii.	At least 6 -7description	(As per explanation)	6
Q.5	i.	IPM module	(As per explanation)	2
	ii.	Validate IPM module	(As per explanation)	2
	iii.	Precautionspesticide	(6 to 8 points)	4
		6 to 8 points		
OR	iv.	IPM module	2 Marks	4
		Impact	2 Marks	
Q.6		Attempt any two:		
	i.	Some important historical events in IPM	(As per explanation)	4
	ii.	Legal implications of IPM	(As per explanation)	4
	iii.	Social and political implication of IPM	(As per explanation)	4
