17198



# BRAINWARE UNIVERSITY

## Term End Examination 2025-2026
## Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023
## Course Name – Principles of Integrated Pest and Disease Management
## Course Code - CC-BAG571(T)/CC-BAG571 (T)
## ( Semester V )

**Full Marks : 50** **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A
(Multiple Choice Type Question) 1 x 20=20

1. *Choose the correct alternative from the following :*

(i) Show the correct answer: Legislative control in pest management typically involves

a) Using natural predators to control pests
b) Passing laws, regulations and executive orders to prevent pest introductions
c) Using chemical baits to attract pests
d) Promoting pesticide use

(ii) Show the correct option: Mechanical control methods primarily involve

a) Altering environmental conditions
b) Physical barriers or traps
c) Use of chemical substances
d) Genetic modification of plants

(iii) Identify which of the following is a biological control method.

a) Applying chemical fertilizers
b) Using synthetic pesticides
c) Introducing parasitoids to target pests
d) Implementing crop rotation

(iv) Show which of the following methods is commonly used for forecasting insect pest outbreaks.

a) Crop rotation
b) Genetic modification
c) Weather data analysis
d) Synthetic pesticide application

(v) Choose the correct answer: Azadirachtin is used as

a) Antifeedant
b) Repellant
c) Attractant
d) IGR

(vi) Methyl eugenol is used as food lure for which insect?

a) Dacus cucurbitae
b) Dacus dorsalis
c) Ceratitis capitata
d) Helicoverpa armigera

(vii) In case of High Volume Spray, how much spray fluid is require for field crops?

a) 1500-2000 L/Ha.
b) 200-500L/Ha.
c) 500-1000 L/Ha.
d) 1800-2200 L/Ha.

(viii) The lowest population at which the pest will cause economic damage is termed as what?

a) ETL
b) GEP

c) EIL
d) MEP

(ix) The control of pests by the use of microorganisms is known as what?

a) Biological control
b) Microbial control
c) Pathogenesis
d) Bacterial control

(x) What is the mode of action of Diflubenzuron?

a) Protoplasmic poison
b) Respiratory poison
c) Nerve poison
d) Chitin synthesis inhibition

(xi) Drift loss is more in case of which formulation?

a) Granule
b) Dust
c) Wettable powder
d) Soluble powder

(xii) Choose the correct option: Formation of alley ways for every 2 m in rice field to control BPH is a type of

a) Mechanical Control
b) Cultural Control
c) Physical Control
d) Host-Plant Resistance

(xiii) Which of the following insecticides is derived from actinomycetes?

a) Nereistoxin
b) Dimilin
c) Plumbago
d) Spinosad

(xiv) Identify the trade name formulation of Confidor.

a) Imidacloprid 17.8% SL
b) Imidacloprid 17.8% SC
c) Imidacloprid 600 FS
d) Imidacloprid 600 SL

(xv) Identify the oral LD50 dose for highly toxic insecticides.

a) 1 to 50
b) 51 to 500
c) 501 to 5000
d) more than 5000

(xvi) Identify the pest which is restricted to a particular locality.

a) Sporadic pest
b) Regular pest
c) Key pest
d) Endemic pest

(xvii) Identify the pest of potato whjich has gained entry into India from outside.

a) Potato tuber moth
b) Cutworm
c) Aphid
d) None of these

(xviii) Identify the pest of mango against which sticky bands around tree trunks provide protection.

a) Hoppers
b) Bark beetle
c) Mango mealybugs
d) All of these

(xix) What is the full form of IPM?

a) Integrated Pest Management
b) Improved Pesticide Management
c) Intensive Pest Monitoring
d) Integrated Pathogen Management

(xx) Which organism is a classical example of a fungal biocontrol agent?

a) Trichoderma spp.
b) E. coli
c) Bacillus thuringiensis
d) Nostoc



## Group-B

(Short Answer Type Questions) 2.5 x 10=25

2. Identify the advantages and disadvantages of biological control. (2.5)
3. Identify the properties of an ideal insecticide or fungicide. (2.5)
4. Classify the genetic resistance based on number of genes. (2.5)
5. Define GEP, ETL and EIL. (2.5)
6. Assess the limitations of using only chemical control in managing crop diseases. (2.5)
7. Categorize the major types of plant diseases based on causal agents. (2.5)
8. Discuss Pest Survey and Pest Surveillance with examples. (2.5)
9. Discuss about acute and chronic toxicity. (2.5)
10. Discuss in brief about LD50, LC50, EC50. (2.5)

11. Develop a comparison between Manually operated Sprayer and Power operated Sprayer. (2.5)

**OR**

Discuss two important points to be considered while handling the Pesticide. (2.5)

**Group-C**

(Long Answer Type Questions) 5 x 1=5

12. Briefly discuss about IPM, its advantages and disadvantages. (5)

**OR**

Discuss the different cultural control practices and their target pests. (5)

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