



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2022

Course Name – Principles of Integrated Pest and Disease Management

Course Code - 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) When did the concept of Integrated Pest Management (IPM) originate?
 - a) 19th Century
 - b) 20th Century
 - c) 21st Century
 - d) Ancient times
- (ii) What is the main goal of IPM?
 - a) To eradicate Pest
 - b) To reduce Pesticide Use
 - c) To maximize crop yield at any cost
 - d) To promote monoculture farming
- (iii) 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
- (iv) Show the correct option: Which of the following is a classification of pesticides based on their mode of action?
 - a) Contact and systemic
 - b) Liquid and granular
 - c) Organic and synthetic
 - d) Herbicidal and insecticidal
- (v) 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
- (vi) Show the correct answer: Pest forecasting involves
 - a) Predicting future crop prices
 - b) Predicting weather patterns
 - c) Predicting the occurrence of pest outbreaks
 - d) Predicting soil nutrient levels
- (vii) What is the role of parasitoids and predators in biological control?
 - a) Increasing pesticide use
 - b) Reducing crop yield

- c) Controlling insect pests naturally
(viii) Who coined the term Ecology?
a) Charles Darwin
c) Ernst Haeckel
(ix) What do you call an insect that parasitizes on other insects?
a) Parasite
c) Scavenger
(x) Citronella oil acts as a repellent for which insect?
a) Honey bees
c) Mosquitoes
(xi) What is the scientific name of green muscardine fungus?
a) Lecanicillium lecanii
c) Metarhizium anisopliae
(xii) What is the type of toxicant that enters in vapour form into respiratory system?
a) Stomach poison
c) Contact poison
(xiii) What do you call the dose of a poison per unit weight which is required to kill 50% of the population of test animals?
a) LC50
c) KD50
(xiv) Which one from the following options is an example of a rodenticide?
a) Ethylene dibromide
c) Pyrethrin
(xv) Which isomer of BHC is more toxic?
a) Alpha
c) Gamma
(xvi) Identify the pest which is restricted to a particular locality.
a) Sporadic pest
c) Key pest
(xvii) The term Fourth Generation Pesticides is related to -
a) Moulting hormones
c) Juvenile hormones
(xviii) What is the location of DPPQ&S?
a) Faridabad
c) Jodhpur
(xix) Pest population at which control measures have to be initiated is
a) EIL
c) GEP
(xx) Identify the full form of POB.
a) Polyhedral Occlusion Bodies
c) Polyvinyl Octahedral Bodies
d) Eliminating all beneficial insects
b) Eugene Odum
d) R.H. Painter
b) Predator
d) Parasitoid
b) Moths
d) Fleas
b) Beauveria bassiana
d) Hirsutella thompsonii
b) Fumigant
d) Physical poison
b) LD50
d) ED50
b) Imidacloprid
d) Warfarin
b) Beta
d) Delta
b) Regular pest
d) Endemic pest
b) Anti moulting hormones
d) Anti juvenile hormones
b) Hyderabad
d) Chennai
b) ETL
d) None of these
b) Polyhedral Occluded Bodies
d) Polyvinyl Occlusion Bodies

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Identify the limitations of chemical control.

(2.5)

3. Define Pest Risk Analysis with suitable examples. (2.5)
4. Classify the genetic resistance based on number of genes. (2.5)
5. Identify the techniques of biological control. (2.5)
6. Define Epidemic and Endemic diseases with suitable examples. (2.5)
7. Construct a short note on Phytotoxicity. (2.5)
8. What are the main components of IDM? (2.5)
9. Discuss about the impact of Roving survey technique. (2.5)
10. Discuss about acute and chronic toxicity. (2.5)
11. Discuss about the advantages of integrated pest management (IPM). (2.5)

OR

Compile the advantages and disadvantages of cultural control. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Discuss one successful case study where IPM has been effectively employed. (5)
13. Discuss the advantages and disadvantages of Host Plant Resistance (HPR). (5)
