17202

BRAINWARE UNIVERSITY

Term End Examination 2025-2026
Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023
Course Name – Pests of Crops and Stored Grain and Their Management/Pests of Crops and Stored Grain and their Management
Course Code - CC-BAG573(T)/CC-BAG573 (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) Identify the insect that causes marginal rolling in rice seedlings.
a) Rice thrips b) Leaf folder
c) Case worm d) Gall midge

(ii) Show the correct answer: Webbing of groundnut leaves is a characteristic symptom of
a) Leaf miner b) Thrips
c) Leafhoppers d) Termites

(iii) Show the correct answer: In coconut, stem or root injection technique is used for the management of
a) Rhinoceros beetle b) Black headed caterpillar
c) Red palm weevil d) Scales

(iv) Identify the insect that causes irregular holes on cucurbit leaves.
a) Fruit flies b) Flea beetle
c) Red pumpkin beetle d) Hadda beetle

(v) Identify the monophagous pest of mango.
a) Red ant b) Hopper
c) Nut weevil d) Stem borer

(vi) Show the correct answer: Bagging of pomegranate fruits with polythene cover is done to avoid
a) Fruit flies b) Fruit cover
c) Shoot borer d) Fruit sucking moth

(vii) Show the correct answer: Crochets are absent in prolegs of the larva of
a) Mustard saw fly b) Sorghum shoot fly
c) Red ram pod fly d) Soybean stem fly

(viii) Identify the bacteria responsible for staining of the cotton fiber.
a) Bacillus gossypii b) Azotobactor sp.

c) Nematospora gossypii d) Pseudomonas sp.

(ix) Identify the insect that causes whitish zig-zag mining on citrus leaves.

a) Phyllocnistis citrella b) Diaphorina citri
c) Aleurocanthus woglumi d) Othreis materna

(x) Identify the insect for which banding with alkathene sheet is practiced.

a) Nut weevil b) Leaf hopper
c) Fruit fly d) Mealybugs

(xi) Identify the pest of sugarcane which causes dead hearts with offensive smell.

a) Early Shoot Borer b) Top Shoot Borer
c) Internode Borer d) Root Borer

(xii) Identify the insect that is responsible for dried leaflets with gallery in older coconut fronds.

a) Black headed caterpillar b) Scale
c) Lacewing bug d) Mites

(xiii) Identify the insect pest of banana that causes bore holes and tunnels in the pseudostem.

a) Odoiporus longicollis b) Cosmopolites sordidus
c) Pentalonia nigronervosa d) Thrips florum

(xiv) Identify the pest of pulses which attacks both in field and storage.

a) Pod borer b) Pod fly
c) Pulse beetle d) Spotted borer

(xv) Identify the chemical that is gennerally used for controlling rodents.

a) Warfarin b) Acetamiprid
c) Propargite d) Metaldehyde

(xvi) Identify the stored product insect which is more susceptible to spinosad.

a) Rhyzopertha dominica b) Tribolium castaneum
c) Caryedon serratus d) Oryzaephilus surinamensis

(xvii) Identify the stored grain pest which showed the first case of insecticide resistance in India.

a) Tribolium castaneum b) Caryedon serratus
c) Rhyzopertha dominica d) Trogoderma granarium

(xviii) Identify the vector of maize yellow mosaic virus.

a) Ceratovacuna lanigera b) Rhopalosiphum maidis
c) Pyrilla perpusilla d) Bemisia tabaci

(xix) Identify the correct scientific name of San Jose scale of apple.

a) Cydia pomonella b) Icerya purchasi
c) Panonychus ulmi d) Quadraspidiotus perniciosus

(xx) Identify the predator used against pink mealy bug, Meconellicoccus hirsutus.

a) Cryptolaemus montrouzieri b) Phytoseiiulus persimilis
c) Rodalia cardinalis d) None of these

Group-B

(Short Answer Type Questions) 2.5 x 10=25

2. Explain the nature of damage of red gram eriophyid mite. (2.5)
3. Discuss the nature of damage and management of jute stem weevil. (2.5)
4. Discuss the management practice for bhindi shoot and fruit borer. (2.5)
5. Identify the management practices for potato tuber moth. (2.5)
6. Identify the nature of damage of DBM on mustard. (2.5)
7. Discuss the nature of damage of onion thrips. (2.5)
8. Explain the nature of damage of rice gall midge. (2.5)
9. Discuss the management of diamond back moth. (2.5)

10. Discuss the nature of damage of pink bollworm. (2.5)
11. Plan a proper IPM schedule for the pests of major Indian cruciferous vegetables. (2.5)

OR

Discuss the preventive measures of storage pest management. (2.5)

Group-C

(Long Answer Type Questions) 5 x 1=5

12. A banana plantation in South India is heavily infested with pseudostem weevil. Prepare a farmer-friendly IPM protocol emphasizing biological control and field sanitation. (5)

OR

Discuss the taxonomic position, nature of damage and management of Brinjal Shoot and Fruit Borer. (5)

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