



17505



Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2024

Course Name – Fundamentals of Entomology

Course Code - CC-BAG272(T)

(Semester II)

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) Tenth edition of Systema Naturae was published in which year?
 - a) 1735
 - b) 1785
 - c) 1758
 - d) 1753
- (ii) Select the extinct group among the following -
 - a) Diplopoda
 - b) Onychophora
 - c) Trilobita
 - d) Chilopoda
- (iii) In which layer of insect integument Chitin is absent?
 - a) Endocuticle
 - b) Exocuticle
 - c) Epicuticle
 - d) Procuticle
- (iv) What is the form of an insect during a stadium known as?
 - a) Morph
 - b) Juvenile
 - c) Instar
 - d) Exuviae
- (v) Name the bristle like structure between the two claws of houseflies.
 - a) Arolium
 - b) Empodium
 - c) Pulvilli
 - d) Arista
- (vi) What type of leg is seen in head louse?
 - a) Natatorial
 - b) Sticking
 - c) Raptorial
 - d) Scansorial
- (vii) In which insect order Pterostigma can be found?
 - a) Dictyoptera
 - b) Neuroptera
 - c) Odonata
 - d) Ephemeroptera

- (viii) In aquatic insects, what is the main excretory product?
 a) Urea
 b) Uric acid
 c) Ammonia
 d) Carbonic acid
- (ix) What is the name of the segmentally arranged opening on dorsal vessel?
 a) Ventricle
 b) Haemolymph
 c) Diaphragm
 d) Ostia
- (x) Haemocoelous sperm transfer is seen in which insect?
 a) Bed bugs
 b) Whiteflies
 c) Gall midges
 d) Mealy bugs
- (xi) Identify the endocrine gland producing juvenile hormone -
 a) Corpora cardiaca
 b) Corpora allata
 c) Prothoracic glands
 d) Weismann's ring
- (xii) In which family do ladybird beetles belong to?
 a) Coccidae
 b) Coccinellidae
 c) Pseudococcidae
 d) Cicindelidae
- (xiii) Spumaline is related to -
 a) Mantids
 b) Cockroaches
 c) Grasshoppers
 d) Mosquitoes
- (xiv) When more than one name is denoting a single insect, it is known as -
 a) Homonym
 b) Synonym
 c) Antonym
 d) Homophone
- (xv) Identify the 'Zone of Effective Temperature' for growth of insects.
 a) 35°C to 50°C
 b) 5°C to 25°C
 c) 10°C to 35°C
 d) 15°C to 40°C
- (xvi) Citronella oil acts as a repellent for which insect?
 a) Honey bees
 b) Moths
 c) Mosquitoes
 d) Fleas
- (xvii) In case of 'High Volume Spray', how much spray fluid is required for field crops?
 a) 1500-2000 L/Ha.
 b) 200-500L/Ha.
 c) 500-1000 L/Ha.
 d) 1800-2200 L/Ha.
- (xviii) In which type of control measure light trap is used?
 a) Cultural control
 b) Mechanical control
 c) Physical control
 d) Chemical control
- (xix) What type of sprayer is used to spray tall trees?
 a) Knapsack sprayer
 b) Rocker sprayer
 c) Foot sprayer
 d) Hand sprayer
- (xx) Show the correct answer: Example of Foragial leg is -
 a) Fore legs of Honeybees
 b) Middle and Hind legs of Honeybees
 c) All pairs except middle legs of Honeybees
 d) All 3 pairs of Legs of Honeybees

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Illustrate the characteristics of class Insecta. (2.5)
3. Define Species, Sub-species and Biotype. (2.5)
4. Discuss about the advantages of integrated pest management (IPM). (2.5)

5. Identify the qualities of a successful parasitoid in Biological control. (2.5)
6. Identify properties of an ideal insecticide. (2.5)
7. Identify the limitations of chemical control. (2.5)
8. Compare in brief between Hemimetabola and Paurometabola. (2.5)
9. Illustrate the characters of the family Aleyrodidae. (2.5)
10. Explain the structure of an insect antenna. (2.5)
11. Explain the composition of insect cuticle. (2.5)

OR

Explain in brief about viviparity in insects and its sub-types. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Explain the structure of insect integument with a rough diagram. (5)

OR

Explain different types of reproduction found in insects. (5)
