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BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science (Honours) in Agriculture

Course Name – Fundamentals of Entomology-I

Course Code - CC-BAG202

(Semester II)

Time allotted : 1 Hrs.5 Min.

Full Marks : 50

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 50=50

Choose the correct alternative from the following :

- (1) The word 'Entomology' derived from-

a) Greek word	b) Latin word
c) English word	d) Latin-Greek word
- (2) Who was posted as the first entomologist to the Government of India?

a) Maxwell Lefroy	b) George Hampson
c) Lionel de Nicevelle	d) E.P. Stebbing
- (3) 'Central Insecticide Act' was enacted in the year-

a) 1986	b) 1968
c) 1868	d) 1886
- (4) Zoological Survey of India is located in

a) Bangaluru	b) Kolkata
c) Assam	d) Manipur
- (5) The beginning of the modern era of Indian Entomology came with the publication of the ___ edition of Carl Linnaeus's "Systema Naturae"

a) 10th	b) 8th
c) 12th	d) 20th
- (6) Poison glands are found in –

a) Diplopoda	b) Chilopoda
c) Crustecea	d) Arachnida
- (7) Mites belongs to the class-

a) Insecta	b) Acarina
c) Arachnida	d) Araneida

- (8) In Crustacean animals how many antennae are present?
a) 4
b) 2
c) 0
d) 6
- (9) The word Arthropods means
a) Jointed wing
b) Jointed foot
c) Jointed thorax
d) Jointed abdomen
- (10) Preservatives use for the preservation of insects-
a) 75% ethyl alcohol
b) 100% ethyl alcohol
c) 80% ethyl alcohol
d) All of these
- (11) Level of taxonomy concerned with naming and characterization of species is known as-
a) Alpha taxonomy
b) Beta taxonomy
c) Delta taxonomy
d) Gamma taxonomy
- (12) Which of the following arrangement is correct?
a) Species-Genus-Order-Class
b) Kingdom-Class-Genus-Species
c) Kingdom-Phylum-Class-Order
d) Phylum-Order-Class-Species
- (13) A group of organisms having the same or nearly the same genotype are known as-
a) Species
b) Biotype
c) Genus
d) Race
- (14) Which of the following insect belongs to order Colembola?
a) Snowflea
b) Silverfish
c) Springtail
d) Both a and c
- (15) Incomplete metamorphosis is seen in-
a) Odonata
b) Lepidoptera
c) Coleoptera
d) all of the above
- (16) Thrips belongs to which order?
a) Thysanura
b) Thysanoptera
c) Hemiptera
d) Homoptera
- (17) How many insect orders are there in Endopterygota?
a) 9
b) 19
c) 16
d) 17
- (18) Which of the following is an apterygot order
a) Protura
b) Thysanoptera
c) Odonata
d) Mallophaga
- (19) Insects are originated about ____ years ago-
a) 480 million
b) 380 million
c) 480 billion
d) 380 billion
- (20) Dropping of caterpillar on a strand of silk for their defense is known as-
a) Reflex bleeding
b) Reflex dropping
c) Thanatosis
d) None of the above
- (21) Homochromism is seen in-
a) Preying mantis
b) Locust
c) Beetles
d) Stick insect

- (22) Which of the following statement is correct?
- a) In Batesian mimicry both Mimic and model is palatable
 b) In Batesian mimicry mimic is restricted to palatable species
 c) In Mullerian mimicry both Mimic and model is palatable
 d) In Mullerian mimicry only model is palatable
- (23) Which of the following belongs to chemical defense mechanism of insects-
- a) Repellency
 b) Irritant
 c) Use of adhesion
 d) All of the above
- (24) In endocuticle which protein is present-
- a) Chitin
 b) Sclerotin
 c) Arthropodin
 d) Resilin
- (25) Which is the outermost layer of cuticle-
- a) Endocuticle
 b) Exocuticle
 c) Epicuticle
 d) Procuticle
- (26) Sclerotization is the process of-
- a) Conversion of arthropodin in to sclerotin
 b) Conversion of sclerotin to arthropodin
 c) Conversion of sclerotin to resilin
 d) Conversion of resilin to sclerotin
- (27) Cuticle is secreted from-
- a) Basement membrane
 b) Epicuticle
 c) Epidermis
 d) Trichogen cell
- (28) Setae are developed from
- a) Epidormal cell
 b) Trichogen cell
 c) Tormogen cell
 d) Hypodermal cell
- (29) Hollow invagination of body wall is called-
- a) Apolysis
 b) Apophysis
 c) Apodeme
 d) Apophysetis
- (30) Which one of the following is the correct sequence of cuticular layers
- a) Epicuticle-Exocuticle-Endocuticle-Epidermis
 b) Epicuticle-Endocuticle-Exocuticle-Epidermis
 c) Procuticle-Exocuticle-Endocuticle-Epidermis
 d) Exocuticle-Endocuticle-Epidermis-Basement membrane
- (31) Rubber like elastic protein present in wings-
- a) Chitin
 b) Arthropodin
 c) Sclerotin
 d) Resilin
- (32) Cuticular parts discarded during moulting are known as-
- a) Exuvia
 b) Exuva
 c) Stadium
 d) Instar
- (33) Apolysis is the process of-
- a) Detachment of cuticle from basement membrane
 b) Detachment of epidermis from basement membrane
 c) Detachment of cuticle from epidermis
 d) Detachment of epicuticle from procuticle
- (34) Moulting gel is rich in which enzyme-

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- a) Chitinase
c) Amylase
- (35) Shedding the old cuticle accompanied by the formation of new cuticle is known as-
- a) Ecdysis
c) Instar
- (36) Grouping of body segments into distinct regions is known as
- a) Tagmata
c) Tagmosis
- (37) How many segments are there in head?
- a) 7
c) 6
- (38) Head is articulated to the thorax through-
- a) Labrum
c) Cranium
- (39) Head sclerite by which frons and labrum is attached-
- a) Clypeus
c) Frons
- (40) Inverted 'Y' shaped suture of head is-
- a) Fronto-Clypeal suture
c) Epicranial suture
- (41) Wings are developed from-
- a) Prothorax
c) Mesothorax
- (42) How many pair of legs are present in insect body?
- a) 3 pair
c) 4 pair
- (43) Dorsal body plate of insect thorax is called-
- a) Tergum
c) Sternum
- (44) How many sutures are present in Pterotrhoracic notum?
- a) 3
c) 5
- (45) Sclerites of pluron is called-
- a) Plura
c) Tergite
- (46) The head remains in the same axis to body and mouth parts are projected forward in _____ type of head-
- a) Prognathus type
c) Ophisthognathus type
- (47) Head of grasshopper is of-
- a) Orthopteroid type
c) Coleopteroid type
- (48) Antennae is completely absent in-
- b) Protease
d) Both a and b
- b) Stadium
d) None of this
- b) Tergite
d) Tergosis
- b) 5
d) 8
- b) Labium
d) Cervix
- b) Gena
d) Occiput
- b) Clypeo-labral suture
d) Post occipital suture
- b) Metathorax
d) Pterathorax
- b) 2 pair
d) 1 pair
- b) Nota
d) Both a and b
- b) 4
d) 6
- b) Plurite
d) Plurite
- b) Hypognathus type
d) All of the above
- b) Hypognathus type
d) Both a and b

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- a) Collembola
- c) Diplura

(49) Largest segment of antennae-

- a) Pedicel
- c) Scape

(50) Moniliform type of antennae is found in-

- a) Grasshopper
- c) Butterfly

- b) Protura
- d) Both a and b

- b) Flagella
- d) Clavola

- b) Termite
- d) Dung beetle

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