

ICAR AIEEA PG 2024

ENTOMOLOGY

Solved Paper

Key Answers are available at the bottom of this document

Question No. 1 / Question ID 40035

Marks: 4.00

In photosynthesis, OEC stands for

1. Oxygen evolving complex
2. Oxygen emitting complex
3. Oxygen ectoplasm complex
4. Outer ectoplasm complex

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 2 / Question ID 40057

Marks: 4.00

A double stranded DNA has 30% Thymine. The percentage of cytosine is

1. 30%
2. 70%
3. 20%
4. 15%

☐ 1 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 3 / Question ID 40087

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Locust	Scientific names
(A). Bombay locust	(I). <i>Cyrtocantharis succinata</i>
(B). Brown locust	(II). <i>Chortoicetes terminifera</i>
(C). Australian locust	(III). <i>Locusta pradalina</i>
(D). Rocky mountain locust	(IV). <i>Melanoplus spretus</i>

Choose the **correct** answer from the options given below:

1. A-(II), B-(III), C-(I), D-(IV)
2. A-(III), B-(I), C-(IV), D-(II)
3. A-(I), B-(II), C-(III), D-(IV)
4. A-(I), B-(III), C-(II), D-(IV)

- ☐ 1 ☐ 2 ☒ (Chosen Option) 3 4
- ☐
- ☐

Question No. 4 / Question ID 40036

Marks: 4.00

Given below are two statements:

Statement (I): Development of an organism from a cell in culture medium is known as Totipotency

Statement (II): Development of a fruit from flower in a culture medium is known as Totipotency

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

- ☐ 1 ☐ 2 ☐ 3 ☒ (Chosen Option) 4
- ☐
- ☐

Question No. 5 / Question ID 40050

Marks: 4.00

Small adhesive pads on the tarsomeres in cockroach are known as

1. Plantulae
2. Arolium
3. Trochanter
4. Tibia

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 6 / Question ID 40104

Marks: 4.00

Tylenchulus semipenetrans can be managed by using trifoliate orange as a

- (A). Root-stock
- (B). Biofumigant
- (C). Donor parent in hybrid production
- (D). Trap crop

Choose the *correct* answer from the options given below:

1. (A) and (B) only.
2. (B) and (D) only.
3. (B) and (C) only.
4. (A) and (C) only.

☐ 1 2 3 4 (Chosen

☐ Option)

☐

☒

Question No. 7 / Question ID 40063

Marks: 4.00

The Japan has lifted its two decade old ban in 2006 on the import of Indian mangoes on the condition that the fruits are subjected to

1. Hot water treatment
2. Irradiation
3. Vapour heat treatment
4. Fumigation

- ☐ 1 ☐ 2 ☒ 3 (Chosen)
☐ Option) 4
☒
☐

Question No. 8 / Question ID 40008

Marks: 4.00

Match List-I with List-II

List-I	List-II
(Book/Theory proposed/Characteristic, etc.)	(Author/Thinker/Name of Theory, etc.)
(A). Royal Commission on Agriculture	(I). 1943
(B). Bengal Farmine	(II). 1928
(C). Grow more food enquiry committee	(III). 2006
(D). MGNREGA	(IV). 1952

Choose the **correct** answer from the options given below:

- (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1 ☐ 2 ☒ 3 (Chosen)
☒ Option) 4
☐
☐

Question No. 9 / Question ID 40022

Marks: 4.00

Insect glands responsible for lubrication of mouthparts are/is

- Maxillary gland
- Pharyngeal gland
- Salivary gland
- Mandibular gland

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 10 / Question ID 40017

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
A. Cereals	I. Potato
B. Semi-perishables	II. Rice
C. Oilseeds	III. Maize
D. Coarse grains	IV. Safflower

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-II, C-I, D-IV

☐ 1 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 11 / Question ID 40024

Marks: 4.00

Grooves with a purely functional origin in insects is called

1. Sulci
2. Membrane
3. Pit
4. Crack

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 12 / Question ID 40074

Marks: 4.00

Given below are two statements:

Statement (I): Plumose antennae are present in female mosquito

Statement (II): Pilose antennae are present in male mosquito

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 13 / Question ID 40089

Marks: 4.00

The connecting link between Orthopteroid and Hemipteroid insects is order

1. Psocoptera
2. Pthiraptera
3. Zoraptera
4. Mecoptera

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 14 / Question ID 40060

Marks: 4.00

An outer limiting membrane and a central pool of mitochondrial components in the spermatid is known as

1. Nebenkern
2. Acrosome
3. Lattice
4. Filament

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 15 / Question ID 40088

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Family	Character
(A). Tettigonidae	(I). Trapezoidal forewings
(B). Membracidae	(II). Pronounced rostrum with geniculate antenna
(C). Curculionidae	(III). Pronotum prominent, elevated hood like
(D). Gelechiidae	(IV). Ovipositor longer than body

Choose the **correct** answer from the options given below:

1. A-(IV), B-(III), C-(II), D-(I)
2. A-(II), B-(I), C-(IV), D-(III)
3. A-(I), B-(II), C-(III), D-(IV)
4. A-(III), B-(IV), C-(I), D-(II)

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 16 / Question ID 40118

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(A). <i>Telenomus remus</i>	(I). Fish
(B). <i>Gambusia affinis</i>	(II). Toad
(C). <i>Bufo rana</i>	(III). Bird
(D). <i>Acridotheres tristis</i>	(IV). Parasitoid

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 17 / Question ID 40080

Marks: 4.00

If the acute dermal median lethal dose (LD_{50}) of an insect is 50mg/kg, then

1. 50 test insects can be killed with 50 mg of toxin
2. One test insect can be killed with 50 mg of the toxin
3. 50% of test insect can be killed with 50 mg of the toxin
4. 50% of test insect will be killed in 50 minutes by 50 mg of the toxin

- ☐ 1 ☐ 2 ☒ 3 (Chosen
☐ Option) 4
☐

Question No. 18 / Question ID 40004

Marks: 4.00

Given below are two statements:

Statement (I): National Research Centre for Medicinal and Aromatic Plants is situated at Anand

Statement (II): NRCMAP was upgraded as ICAR- Directorate of Medicinal and Aromatic Plants during the year 2010

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 19 / Question ID 40007

Marks: 4.00

Match List-I with List-II

List-I	List-II
(Book/Theory proposed/Characteristic, etc.)	(Author/Thinker/Name of Theory, etc.)
(A). Imperial Bacterial Laboratory	(I). Pusa, Bihar
(B). Agricultural Research Institute	(II). Pune, Maharashtra
(C). Central Food Technological Res. Instt	(III). Mysore, Karnataka
(D). Indian Council of Agricultural Research	(IV). New Delhi

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
3. (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1 ☐ 2 ☒ 3 (Chosen
☐ Option) 4
☐

Question No. 20 / Question ID 40006

Marks: 4.00

Given below are two statements:

Statement (I): ICAR-National Research Centre on Mithun is in Medziphema

Statement (II): Mithun is a buffalo-like animal

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 21 / Question ID 40055

Marks: 4.00

A short mechanism that usually involves a short segment of DNA with remarkable capacity to move from one location in a chromosome to another is called

1. DNA Replication
2. DNA Transposon
3. DNA Hybridisation
4. DNA Recombination

- ☐ 1 ☐ 2 (Chosen
☒ Option) 3 4
☐
☐

Question No. 22 / Question ID 40002

Marks: 4.00

The concept of "Green Revolution " in India was formulated during

1. First- Five Year Plan
2. Second-Five Year Plan
3. Third- Five Year Plan
4. Fourth-Five Year Plan

- ☐ 1 ☐ 2 ☐ 3 (Chosen
☐ Option) 4
☒
☐

Question No. 23 / Question ID 40105

Marks: 4.00

Nematodes enter the stage of "lethargus" during

1. Quiescence
2. Killing and fixing
3. Molting
4. Desiccation

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 24 / Question ID 40111

Marks: 4.00

Given below are two statements:

Statement (I): Voltinism in insects is number of generations produced in a year.

Statement (II): *Morus alba* is a perinnial tree in northern India.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 25 / Question ID 40058

Marks: 4.00

One of Mendel's pure strains of pea plants had green peas. How many different types of progeny could such a plant produce with regard to pea colour?

1. One
2. Two
3. Three
4. Four

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 26 / Question ID 40001

Marks: 4.00

The first KVK was established by ICAR at Puducherry in the year

1. 1968
2. 1974
3. 1996
4. 1980

☐ 1 ☒ 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 27 / Question ID 40114

Marks: 4.00

Given below are two statements:

Statement (I): Tukra disease in mulberry is caused by whitefly

Statement (II): Shellac is a resin secreted by female lac insect on host plant

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)

☐

☒

Question No. 28 / Question ID 40047

Marks: 4.00

Formic acid is produced by

1. White ant
2. Cockroach
3. Red ant
4. House fly

☐ 1 ☐ 2 ☐ 3 (Chosen

☐ Option) 4

☒

☐

Question No. 29 / Question ID 40075

Marks: 4.00

FAO guidelines on establishment of pest free areas for fruit flies are dealt under

1. ISPM #8
2. ISPM #16
3. ISPM #26
4. ISPM #30

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 30 / Question ID 40061

Marks: 4.00

Parasitoid, *Allotropa phenacocca* (Hymenoptera) on cotton mealybug, *Phenacoccus solenopsis* is

1. Primary parasitoid
2. Hyperparasitoid
3. Gregarious parasitoid
4. Adelpho parasitoid

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 31 / Question ID 40102

Marks: 4.00

The phenomenon of offspring nematodes developing from unfertilized eggs happens in

1. Amphimixis
2. Parthenogenesis
3. Hermaphrodites
4. Endotokia matricida

- ☐ 1 ☐ 2 (Chosen
- ☒ Option) 3 4
- ☐
- ☐

Question No. 32 / Question ID 40073

Marks: 4.00

Match list I with II

List I	List II
A. Pyriproxifen	I. Sodium Channel Blocker
B. Chlorantraniliprole	II. Acetyl cholinesterase inhibitor
C. Indoxacarb	III. JH mimic
D. Propoxur	IV. Calcium channel activator

Choose the correct answer from the options below:

1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 33 / Question ID 40083

Marks: 4.00

Given below are two statements:

Statement (I): Butterflies with erratic darting flights belong to family Hesperidae

Statement (II): Larvae with tapering at both ends without dorsal setae

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 34 / Question ID 40096

Marks: 4.00

Given below are two statements:

Statement (I): Bean yellow mosaic virus is transmitted by *Aphis glycines*.

Statement (II): Chilli mosaic virus is transmitted by *Aphis craccivora*.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 35 / Question ID 40120

Marks: 4.00

Uzifly is a serious pest of

1. Mulberry inflorescence
2. Silk worm
3. Horse
4. Buffalo

☐ 1 ☐ 2 (Chosen

☒ Option) 3 4



Question No. 36 / Question ID 40052

Marks: 4.00

Needle nematodes are important vectors of

- (A). Raspberry ringspot virus
- (B). Tomato black ring virus
- (C). Arabis mosaic
- (D). Broomgrass mosaic

Choose the **correct** answer from the options given below

1. (A) and (D) only.
2. (B) and (D) only.
3. (A) and (C) only.
4. (A) and (B) only.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 37 / Question ID 40081

Marks: 4.00

Which of the following is the Orthopteroid-Neopteran insect order?

1. Neuroptera
2. Mecoptera
3. Coleoptera
4. Plecoptera

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 38 / Question ID 40070

Marks: 4.00

What is the family of the Mango mealybug?

1. Coccidae
2. Flatidae
3. Pseudococcidae
4. Margarodidae

- ☐ 1
- ☐ 2
- ☐ 3 (Chosen
- ☐ Option) 4



Question No. 39 / Question ID 40094

Marks: 4.00

Given below are two statements:

Statement (I): Virus transmission by whitefly is persistent and circulative type

Statement (II): Virus transmission by hoppers is circulative and usually propagative type

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

- ☒ 1 (Chosen Option)

- ☐ 2

- ☐ 3
☐ 4

Question No. 40 / Question ID 40059

Marks: 4.00

The Muller's organ in insects is associated with

1. Olfaction
2. Chemoreception
3. Hearing
4. Respiration

- ☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen Option)
☐ 4
☐ 4
☐ 4

Question No. 41 / Question ID 40107

Marks: 4.00

The caudal sensory organ showing sexual dimorphism are associated with

1. Reproduction
2. Excretion
3. Secretion
4. Movement

- ☒ 1 (Chosen Option)
☐ 2 ☐ 3 ☐ 4
☐ 4
☐ 4

Question No. 42 / Question ID 40072

Marks: 4.00

The apparatus used for the extraction of cysts from soil is

1. Cobb's sieve
2. Fenwick can
3. Oostenbrink elutriater
4. Baermann's funnel

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 43 / Question ID 40068

Marks: 4.00

DIPA was passed by the Government of India in the year

1. 1946
2. 1954
3. 1914
4. 1910

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 44 / Question ID 40064

Marks: 4.00

Given below are two statements:

Statement (I): *Bacillus thuringiensis* is effective against the mosquito

Statement (II): *Bacillus sphaericus* is effective against the mosquito

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both statements I and statement II are correct
2. Both statements I and statement II are incorrect
3. Statement I is correct and statement II is incorrect
4. Statement I is incorrect and statement II is correct

☐ 1 ☐ 2 (Chosen

☒ Option) 3 4



Question No. 45 / Question ID 40005

Marks: 4.00

Given below are two statements:

Statement (I): Central Agricultural University is in Jorhat

Statement (II): Central Agricultural University is in Imphal

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1

☐ 2

☐ 3

Question No. 46 / Question ID 40112

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Handbook of Agriculture	(I). Academic Press Inc
(B). Elements of Economic Entomology	(II). Brillion Publishing
(C). Theory and Practice of Biological Control	(III). Westville Publishing House
(D). Biological Pest Suppression	(IV). ICAR

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (IV), (B) - (II), (C) - (I), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1 ☐ 2 ☒ 3 (Chosen
☐ Option) 4
☒
☐

Question No. 47 / Question ID 40034

Marks: 4.00

In Calvin cycle, Rubisco incorporates CO₂ into ribulose 1,5 bisphospahte which rapidly splits into

- Glyceraldehyde 3-phosphate
- 2,3 phosphoglyceric acid
- 3 phosphoglycerate
- 1,3 diphosphoglycerate

- ☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen
☐ Option)
☐
☒

Question No. 48 / Question ID 40098

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(A). Potyviridae	(I). Thrips
(B). Tospovirus	(II). Whitefly
(C). Badnavirus	(III). Aphids
(D). Begmovirus	(IV). Mealybugs

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
2. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
3. (A) - (II), (B) - (IV), (C) - (III), (D) - (I)
4. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 49 / Question ID 40015

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
A. Abiotic resistance	I GM Maize (Corn borer)
B. Herbicide resistance	II Drought
C. Insect resistance	III GM Crop (Glyphosate)
D. Pathogen resistance	IV Cucumber Mosaic Virus

Choose the **correct** answer from the options given below:

1. A-IV, B-II, C-III, D-I
2. A-II, B-III, C-I, D-IV
3. A-I, B-IV, C-II, D-III
4. A-II, B-IV, C-III, D-I

- ☐ 1 2 (Chosen
☒ Option) 3 4
☐
☐

Question No. 50 / Question ID 40023

Marks: 4.00

Carnivorous species which actively pursue their prey have

1. Prognathus mouthparts
2. Hypognathus mouthparts
3. Opisthonagus mouthparts
4. Opisthorhynchous mouthparts

- ☐ 1 2 (Chosen
☒ Option) 3 4
☐
☐

Question No. 51 / Question ID 40025

Marks: 4.00

Given below are two statements:

Statement (I): *Aedes aegyptii* contains no anti-coagulant and the blood clots in the stomach within 15 mints of feeding.

Statement (II): *Aedes aegyptii* contains an anti-coagulant which prevents the blood clots in the stomach within 15 mints of feeding.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)

☐

☒

Question No. 52 / Question ID 40113

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Oak tasar silk worm	(I). Jharkhand
(B). Muga silk worm	(II). Uttarakhand
(C). Mulberry silk worm	(III). Assam
(D). Tropical tasar silkworm	(IV). Karnataka

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
3. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

☐ 1 ☐ 2 ☐ 3 (Chosen

☐ Option) 4

☒

☐

Question No. 53 / Question ID 40003

Marks: 4.00

The "Begging Bowl" status in India with regards to chronic food shortage was referred during

1. 1940s
2. 1950s
3. 1960s
4. 1980s

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 54 / Question ID 40049

Marks: 4.00

Book lungs are the respiratory organs in

1. Mollusca
2. Earthworm
3. Silverfish
4. Arachnida

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)



Question No. 55 / Question ID 40048

Marks: 4.00

Given below are two statements:

Statement (I): Linkage was given by G. Mendel

Statement (II): Linkage was given by T.H.Morgan

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)



Question No. 56 / Question ID 40054

Marks: 4.00

Fungicide is obtained from

1. Amla
2. Neem
3. Sunflower
4. Asparagus

☐ 1 ☒ 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 57 / Question ID 40099

Marks: 4.00

Peanut bud necrosis virus (PBND) is transmitted by

- (A). *Aphis gossypii* and *Myzus persicae*
- (B). *Aphis maydis* and *Toxoptera graminum*
- (C). *Thrips palmi* and *Franklinella schultzei*
- (D). *Planococcoides njalensis* and *Pentalonia nigronervosa*

Choose the **correct** answer from the options given below:

1. (A) and (B) only.
2. (B) and (D) only.
3. (C) only.
4. (A) and (D) only.

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4

☒

☐

Question No. 58 / Question ID 40091

Marks: 4.00

After hatching, the hatchling of whitefly passes through

1. 2 nymphal instars
2. 3 nymphal instars
3. 4 nymphal instars
4. 5 nymphal instars

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 59 / Question ID 40065

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(A). Rugose spiralling whitefly	(I). <i>Encarsia noyesi</i>
(B). Spiralling whitefly	(II). <i>Encarsia guadeloupae</i>
(C). Silverleaf whitefly	(III). <i>Encarsia inaron</i>
(D). Coconut whitefly	(IV). <i>Encarsia sophia</i>

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
3. (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
4. (A) - (I), (B) - (III), (C) - (IV), (D) - (II)

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)

☐

☒

Question No. 60 / Question ID 40020

Marks: 4.00

Given below are two statements:

Statement (I): In Soyabean, generally, 75-80 kg/ha seed is recommended in kharif

Statement (II): For spring season soyabean crop, 100 kg/ha seed is recommended

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 61 / Question ID 40029

Marks: 4.00

Insect cells housing the symbionts are known as

1. Mycetocytes
2. Goblet cells
3. Rectal cells
4. Acinar cells

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 62 / Question ID 40069

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). <i>Acorus</i> spp.	(I). Colchicine
(B). Neophobia	(II). Multiple dose poison
(C). Chemosterilant	(III). Sweet flag
(D). Tomafarin	(IV). Single dose poison

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 63 / Question ID 40032

Marks: 4.00

Calvin cycle represents the phenomenon of

1. Oxidative Carboxylation
2. Substrate Level Phosphorylation
3. Dark Respiration
4. Reductive Carboxylation

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 64 / Question ID 40100

Marks: 4.00

The ETL for insect vectors in pest management is

- (A). 0%
- (B). 0 to 0.5 %
- (C). 1.0 to 1.5 %
- (D). 2.0 to 2.5 %

Choose the **correct** answer from the options given below:

1. (A) and (B) only.
2. (A) and (C) only.
3. (B) and (C) only
4. (C) and (D) only.

☒ 1 (Chosen Option)

- ☐ 2 3 4
- ☐
- ☐

Question No. 65 / Question ID 40082

Marks: 4.00

Aquatic insect family Sisyridae belongs to order

1. Neuroptera
2. Hemiptera
3. Plecoptera
4. Strepsiptera

☐ 1 2 3 4 (Chosen

☐ Option)

☐

☐

Question No. 66 / Question ID 40044

Marks: 4.00

Given below are two statements:

Statement (I): Stubby root nematode are also known as Longidorids

Statement (II): Stubby root nematode are also known as Trichodorids

In light of the above statements, choose the *most appropriate* answer from the options given below

1. Both Statement (I) and Statement (II) are correct
2. Both Statement (I) and Statement (II) are incorrect
3. Statement (I) is correct but Statement (II) is incorrect
4. Statement (I) is incorrect but Statement (II) is correct

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 67 / Question ID 40106

Marks: 4.00

The molecular phylogenetic analysis of Phylum Nematoda (De Ley and Blaxter, 2002) reveals the presence of these major sub-classes -

- (A). Chromadoria
- (B). Dorylaimia
- (C). Rhabditia
- (D). Enoplia

Choose the **correct** answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only.
3. (A), (B), (C) and (D) only
4. (B), (C) and (D) only.

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 68 / Question ID 40066

Marks: 4.00

Given below are two statements:

Statement (I): Mosquito blight of tea is caused by *Helopeltis antonii*

Statement (II): Mosquito blight of tea is caused by *Heliothis zea*

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both statements I and statement II are correct
2. Both statements I and statement II are incorrect
3. Statement I is correct and statement II is incorrect
4. Statement I is incorrect and statement II is correct

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 69 / Question ID 40115

Marks: 4.00

The size (mm) of a healthy adult *Laccifer lacca* ranges between

1. 0.5-1.0
2. 0.6-1.5
3. 2.0-3.0
4. 4.0-5.0

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 70 / Question ID 40018

Marks: 4.00

Given below are two statements:

Statement (I): Management of pesticide use is not an integral part of IPM

Statement (II): IPM is not to refine the pesticide application recommendations?

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

☐ 1

☒ 2 (Chosen Option)

☐ 3

Question No. 71 / Question ID 40039

Marks: 4.00

Given below are two statements:

Statement (I): *Xiphinema* spp of nematodes is also known as Dagger nematodes

Statement (II): *Xiphinema* spp of nematodes is also known as Lesion nematodes

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4



Question No. 72 / Question ID 40031

Marks: 4.00

When all the segments differentiate in the embryo, the development is

1. Pseudo
2. Anamorphic
3. Epimorphic
4. Complete

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 73 / Question ID 40095

Marks: 4.00

Given below are two statements:

Statement (I): Tomato spotted wilt virus is not transmitted by *Thrips tabaci*

Statement (II): Cucumber mosaic virus is transmitted by *Myzus persicae*

In light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 74 / Question ID 40038

Marks: 4.00

Given below are two statements:

Statement (I): *Helminthosporium oryzae* was the causative agent for Irish Famine in 1845

Statement (II): *Helminthosporium oryzae* was the causative agent for Bengal Famine in 1943

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 75 / Question ID 40051

Marks: 4.00

The bulk fixation of carbon through photosynthesis takes place in

1. Crop plant and tropical rain forest
2. Tropical rain forest
3. Crop plants
4. Ocean

- ☐ 1 2 (Chosen
- ☒ Option) 3 4
- ☐
- ☐

Question No. 76 / Question ID 40079

Marks: 4.00

Pareuchaetus pseudoinulata is a biocontrol agent of

1. Prickly pear
2. Water fern
3. Siam weed
4. Crofton weed

- ☐ 1
- ☐ 2

- ☐ 3
☐ 4

Question No. 77 / Question ID 40011

Marks: 4.00

Which one of the following is a micro element ?

1. Nitrogen
2. Magnesium
3. Sulphur
4. Manganese

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen
☐ Option)



Question No. 78 / Question ID 40101

Marks: 4.00

The 3rd and 4th stage juveniles of root-knot nematodes are

1. Feeding
2. Non-feeding
3. Quiescent
4. Infective

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 79 / Question ID 40093

Marks: 4.00

Bemisia tabaci is commonly known as

1. Stable fly
2. Warble fly
3. Sweet potato whitefly
4. Cluster fly

☐ 1 ☐ 2 ☐ 3 (Chosen
☐ Option) 4



Question No. 80 / Question ID 40062

Marks: 4.00

Among the entomopathogenic bio-agents which contribute the most in biopesticide market share in India ?

1. Bacteria
2. Fungi
3. Protozoa
4. Virus

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 81 / Question ID 40026

Marks: 4.00

Predaceous insect which restrains its prey by sheer mechanical strength and then tears it to pieces with powerful mandibles is

1. Cockroach
2. Grasshopper
3. Mantis
4. Predatory Mite

☐ 1 2 3 (Chosen

☐ Option) 4

☒

☐

Question No. 82 / Question ID 40046

Marks: 4.00

Bacterial plasmid contains

1. RNA
2. DNA
3. Proteins
4. Histone proteins

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 83 / Question ID 40009

Marks: 4.00

Which of the followings belong to Poaceae family?

- (A). Pearl millet, Rice and Wheat
- (B). Fox-tail, Barley and Sorghum
- (C). Horsegram and Chia seeds
- (D). Cotton and Okra

Choose the **correct** answer from the options given below:

- 1. (A) and (B) only.
- 2. (B) and (C) only.
- 3. (C) and (D) only.
- 4. (B) and (D) only

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 84 / Question ID 40067

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Cotton mirid	(I). <i>Creontiades biseratense</i>
(B). Sorghum earhead bug	(II). <i>Nezara viridula</i>
(C). Mung bean whitefly	(III). <i>Calocoris angustatus</i>
(D). Pentatomid bug	(IV). <i>Bemisia tabaci</i>

Choose the **correct** answer from the options given below:

- 1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- 2. (A) - (I), (B) - (III), (C) - (IV), (D) - (II)
- 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

☐ 1 2 (Chosen

☒ Option) 3 4

☐

☐

Nematode-resistant germplasm PNR-7 is of

1. Tomato
2. Guava
3. Citrus
4. Barley

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 86 / Question ID 40033

Marks: 4.00

Chloroplasts are disrupted and the stroma separated from the lamella. The isolated stroma will fix CO_2 , if it is supplied with

1. ATP and NADPH
2. Oxygen
3. Light
4. Carotenoid

- ☒ 1 (Chosen Option)
- ☐ 2 3 4
- ☐
- ☐

Question No. 87 / Question ID 40116

Marks: 4.00

Life stages of male *Laccifer lacca* are

- (A). Egg
- (B). Larva
- (C). Pupa
- (D). Adult

Choose the **correct** answer from the options given below:

1. (A), (B) and (C) only.
2. (B), (C) and (D) only.
3. (A), (C) and (D) only.
4. A, (B), (C) and (D) only.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Pterostigmata is present on forewings of

- (A). Hymenoptera
- (B). Psocoptera
- (C). Megaloptera
- (D). Mecoptera

Choose the **correct** answer from the options given below:

1. (A) and (D) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 89 / Question ID 40090

Marks: 4.00

Identify the correct sequence of chronology of establishment of following organizations

- (A). Entomological Society of India
- (B). Bombay Natural History Society
- (C). Indian Museum
- (D). Zoological Survey of India

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D).
2. (D), (B), (C), (A).
3. (C), (B), (A), (D).
4. (B), (A), (D), (C).

- ☐ 1
- ☐ 2 (Chosen
- ☒ Option) 3
- ☐ 4

Question No. 90 / Question ID 40117

Marks: 4.00

Which of the followings pertain to Classical Biological Control?

1. ISPM #2
2. ISMP #3
3. ISPM #4
4. ISPM #5

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 91 / Question ID 40042

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). <i>Pisum sativum</i>	(I). Incomplete Dominance
(B). <i>Mirabilis jalapa</i>	(II). Model Organism
(C). <i>Neurospora</i>	(III). Mendel's Laws
(D). <i>Lathyrus odoratus</i>	(IV). Complementary Genes

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
3. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
4. (A) - (II), (B) - (I), (C) - (III), (D) - (IV)

- ☐ 1 ☐ 2 ☒ 3 (Chosen
- ☐ Option) 4
- ☒
- ☐

Question No. 92 / Question ID 40012

Marks: 4.00

Which one of the following animals come under the micro animals?

- A. Squirrels
- B. Beetles
- C. Mice
- D. Protozoa

Choose the **correct** answer from the options given below:

1. (A) only
2. (B) only
3. (C) and (D)
4. (D) only

- ☐ 1 2 3 4 (Chosen
☐ Option)
☐
☒

Question No. 93 / Question ID 40078

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Pleuron	(I). Trochantin
(B). Tergum	(II). Eusternum
(C). Sternum	(III). Postnotum
(D). Legs	(IV). Episternum

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
3. (A) - (IV), (B) - (II), (C) - (I), (D) - (III)
4. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

- ☐ 1 2 3 4 (Chosen
☐ Option)
☐
☒

Arthropods have a characteristic feature of

1. Cuticular exoskeleton
2. Aerial mode of life
3. Presence of wing venation
4. Bright colouration

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 95 / Question ID 40053

Marks: 4.00

In gradual metamorphosis the young is known as

1. Nymhp
2. Naid
3. Stadium
4. Crawler

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 96 / Question ID 40019

Marks: 4.00

Given below are two statements:

Statement (I): Banana puree is used in dairy products and bakery

Statement (II): Banana flour and banana beverages are not becoming popular.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

☐ 1 2 3 (Chosen

☐ Option) 4

☒

☐

Question No. 97 / Question ID 40108

Marks: 4.00

A segment of nematode species differing from the rest of the species in some physiological characteristic such as pathogenicity is called

1. Biotype
2. Pathotype
3. Race
4. Pathovar

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 98 / Question ID 40110

Marks: 4.00

A stage-specific behavior in which an EPN IJ stands on its tail and waves its head in three dimensions is called

1. Foraging
2. Recovery
3. Ambushing
4. Nictation

- ☐ 1 ☐ 2 ☐ 3 (Chosen
- ☐ Option) 4
- ☒
- ☐

Question No. 99 / Question ID 40119

Marks: 4.00

Which of the following countries is the largest producer of lac?

1. China
2. India
3. Ethiopia
4. Bhutan

- ☐ 1 ☐ 2 (Chosen
- ☒ Option) 3 4
- ☐
- ☐

Question No. 100 / Question ID 40041

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(A). Nullisomy	(I). $2n+2$
(B). Trisomy	(II). $2n+1$
(C). Monosomy	(III). $2n-1$
(D). Tetrasomy	(IV). $2n-2$

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 101 / Question ID 40010

Marks: 4.00

Which of the followings pertain to Rice cultivars?

- (A). Sona -Masuri and Kasturi
- (B). Jaya and Kalinga
- (C). K-68 and Radhey
- (D). Swarna and Radhey

Choose the **correct** answer from the options given below:

1. (A) and (B) only.
2. (B) and (C) only.
3. (C) and (D) only.
4. (A) and (C) only.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 102 / Question ID 40077

Marks: 4.00

Which of the following is Non - ester Pyrethroid?

1. Etofenpros
2. Allethrin
3. Cypermethrin
4. Deltamethrin

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 103 / Question ID 40013

Marks: 4.00

The shallow black soil dominates in which of the following States?

- A. Madhya Pradesh
- B. Maharashtra
- C. Odisha
- D. Tamil Nadu

Choose the **correct** answer from the options given below:

1. (A) only
2. (B) only
3. (A) and (B) only
4. (C) and (D) only

☐ 1 2 (Chosen Option) 3 4

☐

☐

Question No. 104 / Question ID 40040

Marks: 4.00

Which of the given gland is **not** found in male cockroach ?

- (A). Collateral gland
- (B). Phallic gland
- (C). Utricular gland
- (D). Conglobate gland

Choose the **correct** answer from the options given below:

- 1. (A) only.
- 2. (D) only.
- 3. (B), (C) and (D) only.
- 4. (A), (B), (C) and (D).

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 105 / Question ID 40086

Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : 'Biological species concept' was introduced by Mayr

Reason (R) : Biological species concept defines species as the group of interbreeding natural populations which are reproductively isolated from other such species

In light of the above statements, choose the *most appropriate* answer from the options given below.

- 1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- 2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- 3. (A) is correct but (R) is not correct.
- 4. (A) is not correct but (R) is correct.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 106 / Question ID 40027

Marks: 4.00

Mutual exchange of food in social insects is known as

1. Social Feeding
2. Trophallaxis
3. Preoral feeding
4. Proctodaeal feeding

☐ 1 ☒ 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 107 / Question ID 40056

Marks: 4.00

In photorespiration, glycolate and glyoxylate are produced sequentially in the following organelles.

1. Chloroplasts and Mitochondria
2. Chloroplasts and Peroxisome
3. Peroxisome and Mitochondria
4. Peroxisome and Chloroplast

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 108 / Question ID 40037

Marks: 4.00

Example of Root knot Nematode is

1. *Meloidogyne*
2. *Ascaris*
3. *Trichinella*
4. *Taenia*

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 109 / Question ID 40084

Marks: 4.00

Given below are two statements:

Statement (I): A taxonomic character is a feature which is present in all appropriate specimens at appropriate time

Statement (II): The taxonomic characters should not show wide variation among specimens

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 110 / Question ID 40109

Marks: 4.00

Which of the following fits the classical definition of an entomopathogenic nematode ?

(A). *Oscheius*

(B). *Romanomermis*

(C). *Heterorhabditis*

(D). *Deladenus*

Choose the **correct** answer from the options given below:

1. (A), (C) and (D) only.
2. (B), (C) and (D) only.
3. (C) and (D) only.
4. (A) and (C) only.

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 111 / Question ID 40076

Marks: 4.00

Webbing of leaves, buds and flowers, bores into the pods and feeds on seeds are the damage symptoms of

1. *Helicoverpa armigera*
2. *Maruca vitrata*
3. *Melanagromyza obtusa*
4. *Exelastis atomosa*

☐ 1 ☐ 2 ☒ (Chosen

☒ Option) 3 4

☐

☐

Question No. 112 / Question ID 40014

Marks: 4.00

Match List-I with List-II

List-I	List-II
A. The Indian Journal of Agricultural Sciences	I. India
B. Biology and Fertility of Soils	II. Japan
C. International Journal of Food Sciences and Nutrition	III. Netherlands
D. Agriculture Ecosystems and Environment	IV. USA

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV

2. A-II, B-I, C-IV, D-III

3. A-I, B-IV, C-II, D-III

4. A-III, B-II, C-I, D-IV

☐ 1 ☐ 2 ☒ 3 (Chosen

☐ Option) 4

☒

☐

Question No. 113 / Question ID 40045

Marks: 4.00

The codons causing gene termination are

- (A). UAA
- (B). UAG
- (C). UUU
- (D). UGA

Choose the **correct** answer from the options given below

- 1. (A), (B) and (D) only.
- 2. (B) and (D) only.
- 3. (A) and (D).
- 4. (B), (C) and (D) only.

☒ 1 (Chosen Option)

☐ 2 3 4

☐

☐

Question No. 114 / Question ID 40016

Marks: 4.00

Principles of experimental design were developed by

- 1. Wilcox
- 2. R.A. Fisher
- 3. Cox and Cochran
- 4. WG Cochran

☐ 1 2 (Chosen

☒ Option) 3 4

☐

☐

Question No. 115 / Question ID 40043

Marks: 4.00

Chewing and biting type of mouthparts are also known as

- 1. Siphoning Type
- 2. Chewing and lapping type
- 3. Sponging type
- 4. Mandibulate Type

☐ 1 2 3 4 (Chosen

☐ Option)

☐

☐

Match List-I with List-II

List-I	List-II
(A). Powdery mildew of mangifera	(I). <i>Erwinia tracheiphila</i>
(B). Bacterial wilt of cucurbits	(II). <i>Oidium mangifera</i>
(C). Bacterial wilt of corn	(III). <i>Erwinia amylovora</i>
(D). Fire blight of pear and apple	(IV). <i>Pantoea stewartii</i>

Choose the **correct** answer from the options given below:

- (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (IV), (B) - (I), (C) - (III), (D) - (II)
- (A) - (III), (B) - (II), (C) - (I), (D) - (IV)

☒ 1 (Chosen Option)

☐ 2 3 4

☐
☐

Question No. 117 / Question ID 40071

Marks: 4.00

Cantharidin is extracted from

- Buprestid beetle
- Blister Beetle
- Chafer Beetle
- Pulse Beetle

☐ 1 2 (Chosen

☒ Option) 3 4

☐
☐

Question No. 118 / Question ID 40092

Marks: 4.00

Most of the non-persistent viruses are transmitted by

1. Weevils
2. Leaf beetles
3. Carrion Beetles
4. Aphids

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)

☐



Question No. 119 / Question ID 40028

Marks: 4.00

The insect hindgut is usually more acidic than the midgut, partly due to

1. Gizzard
2. Crop
3. Midgut
4. Malpighian Tubules

☐ 1 ☐ 2 ☐ 3 ☒ 4 (Chosen

☐ Option)

☐



Question No. 120 / Question ID 40085

Marks: 4.00

Assertion (A): Allopatric species are those species which occupy the same geographical areas

Reason (R): Sympatric species are the ones which normally inhabit the completely different geographical areas

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

☒ 1 (Chosen Option)

☐ 2 ☐ 3 ☐ 4

☐

☐

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NATIONAL TESTING AGENCY
Indian Council of Agricultural Research (ICAR) - PG
Final Answer Key

Exam Date: 29-06-2024

Exam Timing: 10:00 to 12:00

Subject: ENTOMOLOGY AND NEMATOLOGY

Question ID	Correct Option ID	Question ID	Correct Option ID	Question ID	Correct Option ID
40001	2	40041	1	40081	4
40002	3	40042	3	40082	1
40003	3	40043	4	40083	1
40004	4	40044	4	40084	1
40005	4	40045	1	40085	Dropped
40006	1	40046	2	40086	1
40007	3	40047	3	40087	4
40008	2	40048	4	40088	1
40009	1	40049	4	40089	3
40010	1	40050	1	40090	3
40011	4	40051	4	40091	2
40012	4	40052	4	40092	4
40013	2	40053	1	40093	3
40014	3	40054	2	40094	1
40015	2	40055	2	40095	4
40016	2	40056	2	40096	3
40017	2	40057	3	40097	1
40018	2	40058	1	40098	2
40019	3	40059	3	40099	3
40020	1	40060	1	40100	1
40021	1	40061	1	40101	2
40022	1	40062	2	40102	2
40023	1	40063	1	40103	1
40024	1	40064	4	40104	4
40025	4	40065	4	40105	3
40026	3	40066	3	40106	1
40027	2	40067	2	40107	1
40028	4	40068	3	40108	1
40029	1	40069	4	40109	4
40030	3	40070	4	40110	4
40031	3	40071	2	40111	1
40032	4	40072	2	40112	3
40033	1	40073	1	40113	3
40034	3	40074	2	40114	4
40035	1	40075	3	40115	2
40036	3	40076	2	40116	4
40037	1	40077	1	40117	2
40038	4	40078	4	40118	1
40039	3	40079	3	40119	2
40040	1	40080	3	40120	2