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— ICAR PG PYQ SERIES —
**UNDERGRAD TO
UPGRADE**
ENTOMOLOGY AND NEMATOTOLOGY
2025

Roll No		Registered Photo	Exam Day Photo
Application No			
Candidate Name			
Module Name	ENTOMOLOGY AND NEMATOTOLOGY		
Exam Date	03-Jul-2025		
Exam Batch	10:00-12:00		

1) ENTOMOLOGY AND NEMATOTOLOGY

Question No. 1 / Question ID 20093

Marks: 4.00

Given below are two statements:

Statement (I): Virus transmission by mites is circulative but not propagative.

Statement (II): Virus transmission by mealy bugs is circulative.

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. 2 / Question ID 20102

Marks: 4.00

In case of *Xiphinema* spp., guiding ring is present

1. near lip region
2. near tail region
3. between oesophagus and intestine
4. near the junction of odontostyle and odontophore

- ☐ 1
☐ 2
☒ 3
☐ 4

Question No. 3 / Question ID 20023

Marks: 4.00

Which of the following are the most suitable objectives for hybridization?

- (A). To create genetic variation.
- (B). To transfer one or more qualitative characters.
- (C). To use F_1 as a hybrid variety.
- (D). To conduct the DUS test.

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

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

- ☐ 1
☐ 2
☐ 3
☒ 4 (Chosen Option)

Question No. 4 / Question ID 20046

Marks: 4.00

The most application of genetic engineering is the isolation of the trypsin inhibitor gene from

1. Cowpea
2. Moong
3. Chickpea
4. Pigeonpea

- ☒ 1 (Chosen Option)
☐ 2
☐ 3
☐ 4

Question No. 5 / Question ID 20035

Marks: 4.00

K⁺ ions plays a crucial role in opening and closing of the stomata along with other factors like

- (A). Turgor Pressure
(B). CO₂ Levels
(C). Water availability
(D). Light Intensity

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

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

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Question No. 6 / Question ID 20006

Marks: 4.00

The goal of agricultural extension education is:

- (A). To promote the income of farmers.
(B). To promote production of crops.
(C). To motivate the farmers.
(D). To promote agri-entrepreneurs

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

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

- ☐ 1
☒ 2 (Chosen Option)

Question No. 7 / Question ID 20016

Marks: 4.00

Match List-I with List-II

List-I	List-II
(Name of soil/parent material)	(Agent of transportation)
(A). Colluvium	(I). Sediments are transported and deposited by flowing water.
(B). Lacustrine	(II). Sediments are transported and deposited by the sea and oceans.
(C). Marine	(III). Sediments are transported and deposited by lake water.
(D). Outwash	(IV). Sediments are transported and deposited by gravity.

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

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

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 8 / Question ID 20052

Marks: 4.00

The key enzyme involved in the process of Photosynthesis is

- Reverse Transcriptase
- Rubisco
- Telomerase
- Polymerase

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 9 / Question ID 20114

Marks: 4.00

Compound used in cockroach baits is:

- Thallium sulphate
- Formaldehyde
- Boric acid
- Metalddehyde

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 10 / Question ID 20055

Marks: 4.00

Physical features of soil are

- (A) Porosity
(B) Capillary action
(C) Hygroscopicity
(D) Colour

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

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

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Question No. 11 / Question ID 20028

Marks: 4.00

If the nutrient is immobile in the soil, the deficiency symptoms will be observed first on

- (A). Younger leaves
(B). Middle leaves
(C). Old leaves
(D). Flowers

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

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

- ☒ 1 (Chosen Option)
☐ 2
☐ 3
☐ 4

Question No. 12 / Question ID 20112

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Cimicidae	(I). Powder post beetle
(B). Bostrichidae	(II). Bed bugs
(C). Meloidae	(III). House flies
(D). Muscidae	(IV). Blister beetle

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

1. (A) - (II), (B) - (III), (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) - (II), (C) - (IV), (D) - (III)

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

Question No. 13 / Question ID 20088

Marks: 4.00

Match List-I with List-II

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

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

1. (A) - (I), (B) - (IV), (C) - (III), (D) - (II)
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. 14 / Question ID 20071

Marks: 4.00

Which of the following statements about metamorphosis and moulting in insects is correct?

1. Holometabolous insects undergo incomplete metamorphosis, with nymphs resembling adults
2. Moulting is the process of shedding the exoskeleton to allow for growth, controlled by the hormone ecdysone
3. Hemimetabolous insects have a pupal stage where major morphological changes occur
4. Apolysis refers to the hardening of the new exoskeleton after moulting

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

Question No. 15 / Question ID 20097

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Carrot stolbur	(I). <i>Russelliana solanicola</i>
(B). Potato Rugose stunting virus	(II). <i>Brevicoryne brassicae</i>
(C). Zebra chip disease of potato	(III). <i>Bactericera trigonica</i>
(D). Cauliflower mosaic virus	(IV). <i>Bactericera cockrelli</i>

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

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

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

Question No. 16 / Question ID 20074

Marks: 4.00

Which of the following pests are secondary feeders?

1. Flat grain beetle
2. Long headed flour beetle
3. Saw toothed grain beetle
4. All the above

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

Question No. 17 / Question ID 20034

Marks: 4.00

The ability of an organism to survive both the extreme of environment condition was proposed by

1. Blackman
2. Shelford
3. Liebig
4. Hatch & Slack

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

Question No. 18 / Question ID 20104

Marks: 4.00

Which of the following is a tomato variety resistant to *Meloidogyne incognita*?

1. Hisar Lalit
2. Hamsa
3. Patna 6
4. Hannchen

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 19 / Question ID 20115

Marks: 4.00

Given below are two statements:

Statement (I): *Bombyx mori* is solely domesticated worm throughout the world

Statement (II): *Bombyx mori* is solely domesticated worm in 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

☒ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 20 / Question ID 20118

Marks: 4.00

The 3rd generation pesticide is:

1. Bifenthrin
2. Methoprene
3. Deltamethrin
4. Bioallethrin

☐ 1

☒ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 21 / Question ID 20084

Marks: 4.00

Match List-I with List-II

List-I	List-II
Orders	Sub-Order
(A). Thysanura	(I). Monotrysia
(B). Hemiptera	(II). Adephaga
(C). Lepidoptera	(III). Zygentoma
(D). Coleoptera	(IV). Heteroptera

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

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

Question No. 22 / Question ID 20099

Marks: 4.00

Banana bunchy top virus is transmitted by

- (A). *Aphis gossypii*
- (B). *Pentalonia nigronervosa*
- (C). *Aphis malvae*
- (D). *Toxoptera graminum*

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

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

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

Question No. 23 / Question ID 20073

Marks: 4.00

Statement A: Bioaccumulation refers to the increase in concentration of a toxin in an organism over time.

Statement B: Biomagnification refers to the increase in toxin concentration as it moves up the food chain.

- Both Statement (I) and Statement (II) are correct.
- Both Statement (I) and Statement (II) are incorrect.
- Statement (I) is correct but Statement (II) is incorrect.
- Statement (I) is incorrect but Statement (II) is correct.

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 24 / Question ID 20113

Marks: 4.00

The fumigant commonly used in granaries against insect pests and rodents in India is:

- Magnesium phosphide
- Zinc phosphide
- Aluminium phosphide
- Calcium phosphide

☐ 1

☐ 2

☐ 3 (Chosen Option)

☐ 4

Question No. 25 / Question ID 20096

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Tomato spotted wilt	(I). <i>Frankliniella occidentalis</i>
(B). Tomato yellow leaf curl	(II). <i>Bemisia tabaci</i>
(C). Cauliflower mosaic	(III). <i>Brevicoryne brassicae</i>
(D). Downy mildew	(IV). <i>Hyloperonospora brassica</i>

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

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

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 25 / Question ID 20096

Order Ephemeroptera is also called as:

1. Plecoptera
2. Rhynchota
3. Pthiraptera
4. Copeognatha

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 27 / Question ID 20013

Marks: 4.00

What would be the concentration of nutrients in plants when they are suffering from hidden hunger ?

- (A). Above deficiency symptom zone.
- (B). Below the profitable yield zone.
- (C). Below deficiency symptom zone.
- (D). Above profitable yield zone.

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

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

☐ 1

☐ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 28 / Question ID 20019

Marks: 4.00

The pesticide with nematicidal properties is:

- (A). Abamectin
- (B). Enamectin benzoate
- (C). Milbemectin
- (D). Flonicamids

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

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

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 29 / Question ID 20060

Marks: 4.00

Match List-I with List-II

List-I	List-II
Storage Bin	Common name
(A). Pusa Bin	(I). Mud storage structure
(B). Bitumen	(II). Coal Tar Drum Bin
(C). Hapur Bin	(III). Kothis
(D). Stone Bin	(IV). Chittore Bin

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

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

- ☐ 1
☐ 2
☐ 3
☒ 4 (Chosen Option)

Question No. 30 / Question ID 20007

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). KVK	(I). Contact farmer
(B). ATIC	(II). On-farm testing
(C). ATMA	(III). Advisory services to the farmers
(D). T&V	(IV). 739

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

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
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. 31 / Question ID 20085

Marks: 4.00

Given below are two statements:

Statement (I): Calliphora contains two Scapal organs (scalae of Lowne) and the basal organ (cupola of Lowne)

Statement (II): These are the structures present in the haltere

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. 32 / Question ID 20040

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Fossorial legs	(I). Praying Mantis
(B). Natatorial legs	(II). Grasshopper
(C). Raptorial legs	(III). Mole cricket
(D). Jumping legs	(IV). Water Beetles

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 (Chosen Option)

Question No. 33 / Question ID 20021

Marks: 4.00

Scorching or burning on the margins of bottom leaves manifests the deficiency of

1. Nitrogen
2. Zinc
3. Copper
4. Potassium

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

Question No. 34 / Question ID 20036

Marks: 4.00

Given below are two statements:

Statement (I): Heartwood is found in ageing trees and no longer participate in active transport of nutrients.

Statement (II): Heartwood is found in young trees and it actively participates in transport of nutrients.

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. 35 / Question ID 20094

Marks: 4.00

Given below are two statements:

Statement (I): Tukra disease is caused by *Ferrisia virgata*

Statement (II): Tukra disease is caused by *Maconellicoccus hirsutus*

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 (Chosen Option)

Question No. 36 / Question ID 20069

Marks: 4.00

Plants produced by a genetic engineering technique by which single cells or protoplasts are cultured to produce individuals which may be genetically variable from their genetically stable parents.

1. Somatic cell
2. Soma
3. Somaclones
4. Somite

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

Question No. 37 / Question ID 20058

Marks: 4.00

The bulk fixation of carbon through photosynthesis takes place in

1. Tropical Rain Forest
2. Ocean
3. Crop plants
4. Crop plant and Tropical Rain Forest

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

Question No. 38 / Question ID 20065

Marks: 4.00

Pigment essential for nitrogen fixation by the leguminous plants is

1. Haemoglobin
2. Leghaemoglobin
3. Phycocyanin
4. Phycoerythrin

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

Question No. 39 / Question ID 20105

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). <i>Hemicycliophora</i> spp.	(I). White tip nematode
(B). <i>Belonolaimus</i> spp.	(II). Meadow nematode
(C). <i>Aphelenchoides</i> spp.	(III). Sheath nematode
(D). <i>Pratylenchus</i> spp.	(IV). Sting nematode

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

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

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

Question No. 40 / Question ID 20043

Marks: 4.00

Lignin is permeable to water provides strength to the secondary wall and is present in

- (A). Middle lamella
- (B). Primary wall
- (C). Secondary wall
- (D). Woody tissues.

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

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

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

Question No. 41 / Question ID 20078

Marks: 4.00

Forewings are modified into pseudohaltere in order

- 1. Diptera
- 2. Strepsiptera
- 3. Mecoptera
- 4. Thysanoptera

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

Question No. 42 / Question ID 20020

Marks: 4.00

Which one of the following elements is mobile in plants, but immobile in soil ?

- 1. Sulphur
- 2. Zinc
- 3. Boron
- 4. Phosphorus

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

Question No. 43 / Question ID 20039

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Siebold's organ	(I). Modified salivary glands
(B). Silk gland	(II). Crista acaustica, a hearing organ in some crickets & grasshoppers.
(C). Book Lungs	(III). Respiratory organs of Arachnid
(D). Ribagaa's organ	(IV). Berlese's organ sac like organ for receiving spermatozoa on ventral surface of abdomen in female bedbug.

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

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

Question No. 44 / Question ID 20049

Marks: 4.00

Gregor Mendel put forth the basic principles of inheritance, publishing his findings in

1. 1866
2. 1900
3. 1865
4. 1850

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

Question No. 45 / Question ID 20072

Marks: 4.00

Match the Insect Vector (List-I) with the Plant Disease it Transmits (List- II)

List-I	List-II
Insect Vectors	Plant Disease
(A). <i>Myzus persicae</i>	(I). Citrus Greening
(B). <i>Bemisia tabaci</i>	(II). Potato Leaf Roll Virus
(C). <i>Diaphorina citri</i>	(III). Tomato Spotted Wilt Virus
(D). <i>Frankliniella occidentalis</i>	(IV). Cotton Leaf Curl Virus

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

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

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

Question No. 46 / Question ID 20032

Marks: 4.00

Given below are two statements:

Statement (I): Development of an organism from a cell in culture medium which does not give rise to placenta is totipotency.

Statement (II): Development of an organism from a cell in culture medium which gives rise to placenta too is pleuripotency.

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. 47 / Question ID 20031

Marks: 4.00

Plant native to South America is

- (A). Potato
- (B). Rice
- (C). Wheat
- (D). Tomato

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 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 48 / Question ID 20075

Marks: 4.00

Name the committee which approves Bt crops in India

- 1. Insecticide Registration Committee
- 2. Genetic Engineering Approval Committee
- 3. Asia Pacific Plant protection Commission
- 4. Insecticide Resistance Action Committee

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

Question No. 49 / Question ID 20018

Marks: 4.00

Given below are two statements:

Statement (I) : Organic manure and farm yard manure (FYM) contain both major and minor soil nutrients in small quantities.

Statement (II) : Green manuring is defined as a practice of ploughing or turning undecomposed green plants in to the soil.

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 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 50 / Question ID 20050

Marks: 4.00

The insecticidal activity of *B. thuringiensis* crystals was first demonstrated by

1. Hannay
2. Ishiwata
3. Berliner
4. Whiteley

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

Question No. 51 / Question ID 20053

Marks: 4. 00

Rate of photosynthesis is more in which light?

1. Yellow
2. Red
3. Blue
4. White

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

Question No. 52 / Question ID 20042

Marks: 4. 00

Given below are two statements:

Statement (I): Cleptobiosis is a form of symbiosis wherein one species of ant live in or near the colony of another species and feeds on the stored food in the colony.

Statement (II): Cleptobiosis is also known as cleptoparasitism.

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. 53 / Question ID 20120

Marks: 4. 00

Given below are two statements:

Statement (I): Average honey (Kg) produced by *Apis dorsata* (per hive) is more than *A. mellifera*

Statement II: Average honey (Kg) produced by *Apis laboriosa* (per hive) is slightly higher than *A. dorsata*

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. 54 / Question ID 20068

Marks: 4.00

A tool pulled behind a tractor, designed to control weeds at a very early stage of growth from the soil is

1. Rotary hoe
2. Crop rotater
3. Rotavator
4. Digging hoe

- ☐ 1
☐ 2
☐ 3
☒ 4

Question No. 55 / Question ID 20095

Marks: 4.00

Given below are two statements:

Statement (I): Piercing and sucking type of mouth parts make insects non-effective vector of plant viruses

Statement (II): Biting and chewing type of mouth parts make insects effective vector of plant viruses

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
☐ 4

Question No. 56 / Question ID 20057

Marks: 4.00

The existing "Division of Post Harvest Technology" at IARI was renamed as "Division of Food Science and Post Harvest Technology" in

1. November, 2013
2. November, 2012
3. November, 2023
4. November, 2022

- ☐ 1
☐ 2
☐ 3
☒ 4

Question No. 57 / Question ID 20026

Marks: 4.00

In which of the following, the hybrid production of bajra is used ?

- (A). GMS
- (B). CMS
- (C). CGMS
- (D). Self-incompatibility

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

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

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

Question No. 58 / Question ID 20015

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Rice	(I). PM-28
(B). Wheat	(II). HD-3086
(C). Mustard	(III). UPAS-120
(D). Pigeon Pea	(IV). PB-1121

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

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

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

Question No. 59 / Question ID 20017

Marks: 4.00

Given below are two statements:

Statement (I) : Intercropping with 'zero' competition is known as parallel multiple cropping.

Statement (II) : Repetitive growing of the same sole crop on the same land is called monoculture.

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 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 60 / Question ID 20003

Marks: 4.00

T & V system is a good example of :

1. Extension approach
2. Visit approach
3. Training approach
4. Integrated development approach

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 61 / Question ID 20024

Marks: 4.00

The crops which are grown to conserve soil moisture will come under which of the following special classification

- (A). Cash crops
- (B). Cole crops
- (C). Mulch crops
- (D). Nurse crops

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

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

☐ 1

☐ 2

☐ 3

☒ 4 (Chosen Option)

Question No. 62 / Question ID 20117

Marks: 4.00

Given below are two statements:

Statement (I): LC_{50} is the concentration required for a given insecticide to kill 50% of exposed insects

Statement (II): EC_{25} is the concentration required for a given insecticide to kill 75% of exposed insects

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

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

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 63 / Question ID 20064

Marks: 4.00

Highest rate of transpiration is seen in

1. Algae cells
2. Hydrophytic plants
3. Xerophytic Plants
4. Mesophytic Plants

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Question No. 64 / Question ID 20077

Marks: 4.00

Match the threat (List-I) with its impact (List-II).

List-I	List-II
Threat	Impact
(A). Varroa Mite	(I). Pesticides that harm bee nervous systems
(B). Colony Collapse Disorder	(II). Parasite
(C). Neonicotinoids	(III). Sudden loss of worker bees
(D). Deforestation /urbanization	(IV). Reduces pollen and nector source
(E). Climate Change	(V). Habitat Loss

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

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

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

Question No. 65 / Question ID 20002

Marks: 4.00

Vasantrao Naik State Agriculture Extension Management Training Institute (VANAMATI) is located at:

1. Nagpur
2. Parbhani
3. Pune
4. New Delhi

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 66 / Question ID 20063

Marks: 4.00

Crop rotation is practiced by farmers to

1. Increase the soil fertility.
2. Increase soil ph
3. Decrease soil ph
4. Increase soil porosity

- ☐ 1 (Chosen Option)
- ☐ 2

Question No. 67 / Question ID 20087

Marks: 4.00

Given below are two statements:

Statement (I): Arthropleona and Symphyleona are the suborders of Collembola.

Statement (II): Family Thripidae belongs to the order Thysanura.

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. 68 / Question ID 20059

Marks: 4.00

The factor which is not limiting for Photosynthesis

1. Chlorophyll
2. Oxygen
3. Carbon dioxide
4. Light

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 69 / Question ID 20041

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Holopneustic	(I). Spiracles replaced by gills
(B). Apneustic	(II). 2 or more pair of spiracles are non-functional
(C). Branhiopneustic	(III). 2 thoracic and 8 abdominal pairs of spiracles
(D). Hemipneustic	(IV). spiracles absent

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

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

Question No. 70 / Question ID 20076

Marks: 4.00

In nematodes, when muscle cells with contractile fibers are restricted to the area of contact with hypodermis, the muscle cells are classified as

1. Coelomarians
2. Platymarians
3. Circomyarians
4. Meromyarians

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

Question No. 71 / Question ID 20038

Marks: 4.00

Statement (I) : Skipjack click beetles have the ability to suddenly leap up into the air with a clicking sound.

Statement (II) : Click beetle are known as wireworms.

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. 72 / Question ID 20044

Marks: 4.00

Given below are two statements:

Statement (I) : Respiration is a destructive process highly beneficial to plant as it gives free energy.

Statement (II) : Respiratory Quotient is important because it serves as a clue to the nature of the compounds used in respiration.

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. 73 / Question ID 20108

Marks: 4.00

Given below are two statements:

Statement (I): 'Blackhead' is a disease of black pepper

Statement (II): Black head disease is caused by *Radopholus similis*

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 (Chosen Option)

Question No. 74 / Question ID 20103

Marks: 4.00

Root-knot nematode was for the first time reported from India by

1. E.J. Butler
2. N.A. Cobb
3. C.A. Barber
4. G.F. Atkinson

- ☐ 1
☐ 2
☐ 3 (Chosen Option)
☐ 4

Question No. 75 / Question ID 20106

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). <i>Meloidogyne</i> sp.	(I). Syncytium
(B). <i>Heterodera</i> sp.	(II). Nurse cells
(C). <i>Anguina tritici</i>	(III). Giant cells
(D). <i>Tylenchulus semipenetrans</i>	(IV). Seed gall

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

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

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 76 / Question ID 20061

Marks: 4.00

Ganong's Potometer is used to measure

1. Transpiration
2. Respiration
3. Photosynthesis
4. Solarization

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 77 / Question ID 20047

Marks: 4.00

Agricultural technique of harvesting a monocot crop by cutting most of the above ground portion but leaving the roots from which second crop can be propagated.

1. Ratooning
2. Spaced transplantation technique
3. Sett Method
4. Mixed cropping

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 78 / Question ID 20008

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Marks: 4.00

The form of adult education has evolved from the assumption that farmers learn optimally from field observation and experimentation

- (A). Result demonstration
- (B). Farmers Field School
- (C). Method demonstration
- (D). Field school

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

- 1. (A) & (C) Only
- 2. (A) & (D) Only
- 3. (B) Only
- 4. (A) Only

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

Question No. 79 / Question ID 20009

Marks: 4.00

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

Assertion (A) : The small, marginal and weaker sections of the farming communities need to be duly represented and sustained in aggregations.

Reason (R) : In India, extension in allied sectors is very strong as compared to agriculture.

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

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

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

Question No. 80 / Question ID 20092

Marks: 4.00

Ufra disease of rice is caused by

- 1. Nematode
- 2. Bacteria
- 3. Fungus
- 4. Protozoa

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

Question No. 81 / Question ID 20100

Marks: 4.00

Tobacco streak virus disease is transmitted by

- (A). *Myzus persicae*
- (B). *Scriptothrips dorsalis*
- (C). *Bemisia tabaci*
- (D). *Frankliniell schultzei*

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

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

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

Question No. 82 / Question ID 20109

Marks: 4.00

Which of the following is Nematode-bacterium disease complex ?

- (A). Yellow ear rot of wheat
- (B). Cauliflower disease of strawberry
- (C). Early yellowing and root rot disease of pea
- (D). Onion collar rot

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

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

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

Question No. 83 / Question ID 20011

Marks: 4.00

A farmer grows Rice-Wheat-Cowpea in his field per year in a sequence, then the cropping intensity of his field will be

- 1. 300
- 2. 200
- 3. 400
- 4. 100

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

Question No. 84 / Question ID 20089

Marks: 4.00

'Red list of threatened species' is published by.

1. Society for Conservation of Biodiversity (SCB)
2. Global Biodiversity Information Facility (GBIF)
3. International Commission on Zoological Nomenclature (ICZN)
4. International Union for Conservation of Nature (IUCN)

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

Question No. 85 / Question ID 20101

Marks: 4.00

Ovary in *Ditylenchus* spp. is

1. monodelphic-prodelphic
2. monodelphic-opisthodelphic
3. didelphic-prodelphic
4. didelphic-amphidelphic

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

Question No. 86 / Question ID 20056

Marks: 4.00

Match List-I with List-II

List-I	List-II
Soil Type	Size of the particle
(A). Coarse particles	(I). 2- 2 mm form coarse sand
(B). Smaller particles	(II). 0.2-0.02 mm form sand
(C). Finer particles	(III). less than 0.002 mm form clay
(D). Very fine particles	(IV). 0.02- 0.002 mm form silt

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

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (III), (B) - (I), (C) - (II), (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. 87 / Question ID 20062

Marks: 4.00

Helotism is symbiosis between

1. Fungi and algae.
2. Bacteria and algae
3. Fungi and Bacteria
4. Pinus and fungi

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 88 / Question ID 20033

Marks: 4.00

Replication of DNA takes place in the following phase of Cell cycle.

1. G1 Phase
2. G2 Phase
3. S- Phase
4. M Phase

- ☐ 1
☐ 2
☐ 3 (Chosen Option)
☐ 4

Question No. 89 / Question ID 20014

Marks: 4.00

Black soils are most favorable for the cultivation of

1. Jute
2. Cotton
3. Rice
4. Wheat

- ☐ 1
☐ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 90 / Question ID 20067

Marks: 4.00

The process of evaluating biological or other scientific and economic evidence to determine whether a pest should be regulated and the strength of any phyto sanitary measures to be taken against it is

1. Pest free area
2. Pest Intensity
3. Pest risk assessment
4. Pest risk analysis

- ☐ 1
☐ 2
☐ 3
☐ 4 (Chosen Option)

Given below are two statements:

Statement (I): Deirids are sensory structures present in nematodes

Statement (II): Deirids act as tactile organs

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. 92 / Question ID 20116

Marks: 4.00

Given below are two statements:

Statement (I): The uzifly is a larval parasitoid of silk worms

Statement (II): Hide beetle, *Dermastes* spp feed on silk, pupa and cocoons

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. 93 / Question ID 20048

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). White rice borer	(I). <i>Pelopidas mathias</i>
(B). Rice skipper	(II). <i>Tryporyza innotata</i>
(C). Striped rice borer	(III). <i>Chilo suppressalis</i>
(D). Rice grasshopper	(IV). <i>Hieroglyphus banian</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) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

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

Question No. 94 / Question ID 20010

Marks: 4.00

Given below are two statements:

Statement (I): A digital platform of ICAR to facilitate farmers to get right information at right time in their desired language powered by IIDS, DIC, Ministry of Electronics & IT, Govt. of India.

Statement (II): A digital platform of ICAR to facilitate farmers to get right information at right time in their desired language powered by ICAR, Ministry of Agriculture & Farmers Welfare, Govt. of 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
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 95 / Question ID 20080

Marks: 4.00

Given below are two statements:

Statement (I) : Entomopathogenic nematodes (EPNs) are obligate parasites that kill insects by releasing symbiotic bacteria (*Xenorhabdus* or *Photorhabdus*) inside the host.

Statement (II) : EPNs are ineffective in biological control because they cannot survive outside a host for more than 24 hours.

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. 96 / Question ID 20079

Marks: 4.00

Which disease is caused by a fungus (*Beauveria bassiana*) in silkworms?

1. Pebrine
2. Flacherie
3. Muscardine
4. Grasserie

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Question No. 97 / Question ID 20019

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Bread wheat	(I). <i>Hordeum vulgare</i>
(B). Barley	(II). <i>Triticum aestivum</i> L.
(C). Chick pea	(III). <i>Pisum sativum</i> L.
(D). Field pea	(IV). <i>Cicer arietinum</i> L.

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

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

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 98 / Question ID 20082

Marks: 4.00

Which of the following is the example of the extinct insect order?

1. Protodonata
2. Megasecoptera
3. Perlaria
4. Both (1) and (2)

☐ 1

☐ 2

☐ 3

☒ 4 (Chosen Option)

Question No. 99 / Question ID 20070

Marks: 4.00

Given below are two statements:

Statement (I) : Successive planting of different crops in the same field over a period of years is known as Crop Rotation.

Statement (II) : Crop Rotation helps in pest control but not in soil fertility.

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. 100 / Question ID 20037

Marks: 4.00

Howard Temin and David Baltimore discovered the

1. Reverse Transcriptase.
2. Primase.
3. Endonuclease.
4. Exonuclease.

- ☒ 1 (Chosen Option)
☐ 2
☐ 3
☐ 4

Question No. 101 / Question ID 20001

Marks: 4.00

Opinion leaders belong to which of the following category:

1. Early majority
2. Laggards
3. Early adopters
4. Innovators

- ☒ 1 (Chosen Option)
☐ 2
☐ 3
☐ 4

Question No. 102 / Question ID 20098

Marks: 4.00

Mango anthracnose disease is caused by

- (A). *Colletotrichum gloeosporioides*
(B). *Ceratocystis ulmi*
(C). *Fusarium vasinfectum*
(D). *Erwinia tracheiphila*

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

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

- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 103 / Question ID 20029

Marks: 4.00

Which of the following practices is suitable for certification of organic farming?

- (A). Crop rotation
- (B). Green manuring
- (C). Fertigation
- (D). Soil solarization

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

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

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

Question No. 104 / Question ID 20083

Marks: 4.00

Identify the correct sequence of the insect orders ranging from largest to smallest in terms of number of species.

- (A). Coleoptera
- (B). Zoroptera
- (C). Orthoptera
- (D). Diptera

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

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

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

Question No. 105 / Question ID 20004

Marks: 4.00

The final stage of on-farm research is:

- (A). Technology assessment.
- (B). Technology verification.
- (C). Adoption.
- (D). Technology diffusion.

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

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

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

Question No. 106 / Question ID 20091

Marks: 4.00

Pseudo curly top disease of tomato is transmitted by

- 1. Whitefly
- 2. Thrips
- 3. Tree hoppers
- 4. Flea beetle

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

Question No. 107 / Question ID 20025

Marks: 4.00

Which of the following breeding methods is used for purification of old varieties?

- (A). Back cross
- (B). Mass selection
- (C). Recurrent method
- (D). Pure line selection

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

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

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

Question No. 108 / Question ID 20111

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Parasite	(I). <i>Pedeculus humanus</i>
(B). Predator	(II). <i>Panthera leo</i>
(C). Parasitoid	(III). <i>Helicoverpa armigera</i>
(D). Cannibalism	(IV). <i>Trichogramma embryophagum</i>

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

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

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 109 / Question ID 20066

Marks: 4.00

A field cultivator equipped with small sweep shovels is

1. Disc Harrow
2. Duckfoot cultivator
3. Tine Harrow
4. Tyne cultivator

☐ 1

☐ 2

☐ 3

☐ 4

Question No. 110 / Question ID 20051

Marks: 4.00

The technique which involves hybridization between economically important species and a wild sexually incompatible relative species followed by excision and culturing of hybrid zygotic embryo on nutrient media is known as

1. Recombinant technology.
2. Embryo-rescue Technique.
3. Protoplast Fusion.
4. Biological Control.

☐ 1

☐ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 111 / Question ID 20012

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Marks: 4.00

International Year of Soil was celebrated in which of the following years?

1. 2015
2. 2016
3. 2017
4. 2018

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 112 / Question ID 20054

Marks: 4.00

Young leaves show a delay in initiation of photosynthesis even after appearance of chlorophyll is due to enzymatic factor which is regulated by

- (A). Light
- (B). Temperature
- (C). Ph & Salt
- (D). Substrate

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

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

☐ 1

☐ 2

☐ 3 (Chosen Option)

☐ 4

Question No. 113 / Question ID 20081

Marks: 4.00

Genus Zorotypus belongs to the order:

1. Protura
2. Zoroptera
3. Diplura
4. Collembola

☐ 1

☐ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 114 / Question ID 20027

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Maize-based cropping system	(I). Andhra Pradesh
(B). Groundnut-based cropping system	(II). Uttar Pradesh
(C). Cotton-based cropping system	(III). Rajasthan
(D). Pearl millet-based cropping system	(IV). Maharashtra

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

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

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 115 / Question ID 20005

Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Extension Science: Information Systems in Agricultural Development	(I). Everett M. Rogers
(B). Diffusion of Innovations	(II). Kerlinger
(C). Training for Development	(III). Niels G. Rolling
(D). Foundation of Behavioral Research	(IV). Lynton and Pareek

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

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

☐ 1

☐ 2

Question No. 116 / Question ID 20110

Marks: 4.00

Ethylene dibromide

- (A). is a red colour liquid
- (B). is a colourless liquid
- (C). has nematocidal value first described by Carter
- (D). has nematocidal value first described by Christie

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

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

- ☐ 1
☐ 2
☐ 3
☒ 4 (Chosen Option)

Question No. 117 / Question ID 20022

Marks: 4.00

Wet milling of maize is done to obtain which of the following products:

- (A). Starch
- (B). Oil
- (C). Cattle feed
- (D). Solid glucose

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

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

- ☐ 1
☐ 2
☐ 3
☐ 4

Question No. 118 / Question ID 20045

Marks: 4.00

Given below are two statements:

Statement (I) : Penetrance is the percentage of individuals having a particular genotype that express the associated phenotype.

Statement (II) : Expressivity is the degree to which a trait is expressed.

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. 119 / Question ID 20030

Marks: 4.00

Given below are two statements:

Statement (I) : In sandy soil, the nutrient availability is low.

Statement (II) : The water holding capacity of a sandy soil is poor.

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 but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

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

Question No. 120 / Question ID 20090

Marks: 4.00

Aquatic insect family Japygidae belongs to order.

1. Diplura
2. Hemiptera
3. Plecoptera
4. Stripsiptera

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

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NATIONAL TESTING AGENCY
Indian Council of Agricultural Research (ICAR) (PG) - 2025
Final Answer Key

Subject: Entomology and Nematology

Exam Shift: 10:00 to 12:00

Exam Date: 03-07-2025

Question ID	Correct Opt_ID	Question ID	Correct Opt_ID	Question ID	Correct Opt_ID	Question ID	Correct Opt_ID
20001	3	20036	3	20071	2	20106	1
20002	1	20037	1	20072	3	20107	1
20003	3	20038	1	20073	1	20108	4
20004	2	20039	2	20074	4	20109	1
20005	2	20040	4	20075	2	20110	4
20006	3	20041	4	20076	2	20111	1
20007	2	20042	1	20077	1	20112	2
20008	1	20043	3	20078	2	20113	3
20009	3	20044	1	20079	3	20114	3
20010	3	20045	1	20080	3	20115	1
20011	1	20046	1	20081	2	20116	1
20012	1	20047	1	20082	4	20117	2
20013	2	20048	2	20083	2	20118	2
20014	2	20049	1	20084	4	20119	1,
20015	3	20050	1	20085	1		2
20016	2	20051	2	20086	1	20120	3
20017	1	20052	2	20087	3		
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20019	1	20054	3	20089	4		
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20021	4	20056	3	20091	3		
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20024	3	20059	2	20094	4		
20025	2	20060	1	20095	2		
20026	3	20061	1	20096	1		
20027	3	20062	1	20097	3		
20028	1	20063	1	20098	2		
20029	3	20064	4	20099	2		
20030	1	20065	2	20100	3		
20031	1	20066	2	20101	1		
20032	3	20067	4	20102	4		
20033	3	20068	1	20103	3		
20034	2	20069	3	20104	1		
20035	3	20070	3	20105	2		

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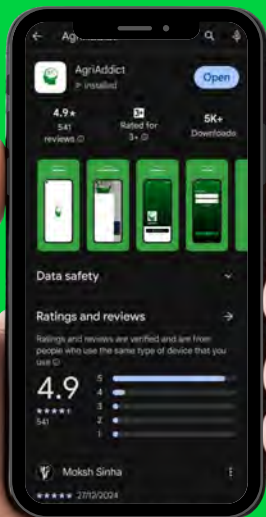
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