

1

Question ID : 4361

Topic Name : ENTOMOLOGY AND NEMATOTOLOGY

Which of the following fungus is used to control *Meloidogyne* spp affecting vegeta

- (1) *Arthobotrys robusta*
- (2) *Dactylella oviparasitica*
- (3) *Catenaria auxiliaris*
- (4) *Ditylenchus dipsaci*

NOT ANSWERED

2

Question ID : 4362

Topic Name : ENTOMOLOGY AND NEMATOTOLOGY

Which of the following is a white flesh colour grape ?

- (1) Burgundy
- (2) Flame
- (3) Foster
- (4) Duncan

NOT ANSWERED

3

Question ID : 4363

Topic Name : ENTOMOLOGY AND NEMATOTOLOGY

Which of the following is banana rust thrips ?

- (1) *Odoiporus longicollis*
- (2) *Chaetanaphothrips signipennis*
- (3) *Phakospora ampelopsidis*
- (4) *Xanthomonas campestris*

Answer Given By Candidate is : 2

4

Question ID : 4364

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following contrasting characters for Pod shape studied by Mendel is

- (1) Tall/dwarf
- (2) Axial/Terminal
- (3) Round/Wrinkled
- (4) Inflated/Constricted

Answer Given By Candidate is : 4

5

Question ID : 4365

Topic Name : ENTOMOLOGY AND NEMATOLOGY

What is the term used for the gene carried in the Y chromosome and thereby showing male transmission; confined to the male sex only (in mammals) ?

- (1) Homoeotic genes
- (2) Holandric genes
- (3) Terminator gene
- (4) Null gene

Answer Given By Candidate is : 2

6

Question ID : 4366

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is superiority of a heterozygote over both the concerned parents in respect of one or more characters called ?

- (1) Hybridoma
- (2) Hexaploid
- (3) Heterosis
- (4) Holandric

Answer Given By Candidate is : 3

7

Question ID : 4367

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is used as Nitrogen source in chemical fertilizer ?

- A. Ammonium nitrate
- B. Calcium nitrate
- C. Ammonium sulphate
- D. Ammonium phosphate
- E. Potassium nitrate

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

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

Answer Given By Candidate is : 2

8

Question ID : 4368

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is used as potassium source in chemical fertilizer ?

- (1) Potassium frit
- (2) Super phosphate
- (3) Calcium nitrate
- (4) Ammonium molybdate

Answer Given By Candidate is : 1

9

Question ID : 4369

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following nutrient deficiency is first observed in older leaves as inter with marginal and tip necrosis ?

- (1) Calcium
- (2) Phosphorus
- (3) Potassium
- (4) Iron

Answer Given By Candidate is : 4

10

Question ID : 4370

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following trait for transgenic production is studied in Blackgram, C and Rice ?

- (1) Fruit Ripening
- (2) Nutrition Enhancement
- (3) Edible vaccine
- (4) Herbicide Tolerance

Answer Given By Candidate is : 4

11

Question ID : 4371

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following hybrid mango resulted from parentage of Ratna X Alphonso

- (1) Mallika
- (2) Sindhu
- (3) Ratna
- (4) Amrapali

Answer Given By Candidate is : 2

12

Question ID : 4372

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following rootstock of mango is associated with 'low temperature tolerance' in India ?

- (1) *M. khasiana*
- (2) *M. griffithii*
- (3) *M. laurina*
- (4) *M. pajang*

NOT ANSWERED

13

Question ID : 4373

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following states have the largest area under winter crops for chickpea?

- (1) Uttar Pradesh
- (2) Madhya Pradesh
- (3) Rajasthan
- (4) Haryana

Answer Given By Candidate is : 2

14

Question ID : 4374

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following states have the largest area under winter crops for wheat in India?

- (1) Madhya Pradesh
- (2) Uttar Pradesh
- (3) Rajasthan
- (4) Punjab

Answer Given By Candidate is : 2

15

Question ID : 4375

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is an irrigated cropping system of Tamil Nadu?

- A. Groundnut - maize
- B. Groundnut - sesame
- C. Groundnut - mustard
- D. Groundnut - finger millet/sorghum
- E. Groundnut - maize

Choose the correct answer from the options given below :

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

Answer Given By Candidate is : 2

16

Question ID : 4376

Topic Name : ENTOMOLOGY AND NEMATOLOGY

How much area of rainfed groundnut is under intercropping in India ?

- (1) 25 %
- (2) 05 %
- (3) 45 %
- (4) 65 %

NOT ANSWERED

17

Question ID : 4377

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following are the disease that affect sugarcane crop ?

- A. Red rot
- B. Smut, ratoon stunting disease
- C. Wilt (fungi)
- D. Grassy shoot disease (phytoplasma)
- E. Leaf scald (bacteria)

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

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

Answer Given By Candidate is : 4

18

Question ID : 4378

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is the combination of mustard variety in India ?

- A. *hirsuta*
- B. *hypogaea*
- C. *fastigiata*
- D. *vulgaris*
- E. *juncea*

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

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

Answer Given By Candidate is : 2

19

Question ID : 4379

Topic Name : ENTOMOLOGY AND NEMATOLOGY

What is the minimum isolation distance in metre for certified seed of Tomato ?

- (1) 25 m
- (2) 50 m
- (3) 100 m
- (4) 120 m

20

Question ID : 4380

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I	List - II
Institute / Bureau	Location
A. CIFE	I. Delhi
B. NBPGR	II. Mumbai
C. CPRI	III. Jodhpur
D. CAZRI	IV. Shimla

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

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

Answer Given By Candidate is : 3

21

Question ID : 4381

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is used for transgenic male sterility system for tr development ?

- (1) Marnase and Marstar
- (2) Barnase and Barstar
- (3) Jarnase and Jarstar
- (4) Narnase and Narstar

Answer Given By Candidate is : 2

22

Question ID : 4382

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I	List - II
Bureau	Location
A. NBAII	I. Lucknow
B. NBFGR	II. Bengaluru
C. NBAIM	III. New Delhi
D. NBPGR	IV. Mau

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

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

Answer Given By Candidate is : 4

23

Question ID : 4383

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following place AICRP on Honey Bee Research and Training is located

- (1) New Delhi
- (2) Hisar
- (3) Pune
- (4) Bengaluru

Answer Given By Candidate is : 1

24

Question ID : 4384

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following label colour is used for "labelled seed" category ?

- (1) Blue
- (2) Opal Green
- (3) Golden Yellow
- (4) White

Answer Given By Candidate is : 2

25

Question ID : 4385

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is correct combination of agricultural extension methods ?

- A. Result Demonstration
- B. Farm and Home visit
- C. Method demonstration
- D. Exhibition
- E. Campaign

Choose the correct answer from the options given below :

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

Answer Given By Candidate is : 3

26

Question ID : 4386

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is correct combination of Principles of Extension Education

- A. Principle of interests and needs
- B. Principle of cultural differences
- C. Principle of co-operation
- D. Principle of trained specialists
- E. Principle of evaluation and improvement

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

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

Answer Given By Candidate is : 1

27

Question ID : 4387

Topic Name : ENTOMOLOGY AND NEMATOLOGY

The average count of *Meloidogyne spp* from two localities are 460 and 240 per site respectively. What is the combined average per site ?

- (1) 28.33
- (2) 31.33
- (3) 44.33
- (4) 39.33

Answer Given By Candidate is : 1

28

Question ID : 4388

Topic Name : ENTOMOLOGY AND NEMATOLOGY

The guvava yields (in quintal per plot) of a new variety from 07 plots are 5, 6, 7, 8, 9, 10, 11. Calculate the mean deviation of this production.

- (1) 7/9 quintal
- (2) 6/7 quintal
- (3) 6/5 quintal
- (4) 4/7 quintal

NOT ANSWERED

29

Question ID : 4389

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following Bt cotton hybrid was approved for the commercial cultivation in 2002, based on strength of scientific data ?

- (1) REKU 18
- (2) PIBS 26
- (3) MECH 184
- (4) BLTU 19

Answer Given By Candidate is : 3

30

Question ID : 4390

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following rice species is having chromosome number (2n) as 48 ?

- (1) *O. longiglumis*
- (2) *O. nivara*
- (3) *O. rufipogon*
- (4) *O. barthii*

NOT ANSWERED

31

Question ID : 4391

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following rice chromosome number(2n) is not 48 ?

- (1) *O. latifolia*
- (2) *O. alta*
- (3) *O. ridleyi*
- (4) *O. nivara*

NOT ANSWERED

32

Question ID : 4392

Topic Name : ENTOMOLOGY AND NEMATOLOGY

How many species of genus *Oryza* are recognized ?

- (1) 24
- (2) 06
- (3) 12
- (4) 92

Answer Given By Candidate is : 1

33

Question ID : 4393

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which one of the following rice variety is considered as annual cultivate and not

- (1) *O. glaberima*
- (2) *O. granulata*
- (3) *O. ridleyi*
- (4) *O. alta*

Answer Given By Candidate is : 1

34

Question ID : 4394

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following wheat species is also known as macaroni wheat ?

- (1) *T. aestivum*
- (2) *T. durum*
- (3) *T. dicoccum*
- (4) *T. sphaerococcum*

Answer Given By Candidate is : 2

35

Question ID : 4395

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following wheat species is promoted as health food on account of protein content ?

- (1) *T. aestivum*
- (2) *T. dicoccum*
- (3) *T. sphaerococcum*
- (4) *T. durum*

NOT ANSWERED

36

Question ID : 4396

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Consider the values for yield and plant height for a mustard variety, the mean deviation for yield are 40kg and 4kg, respectively. The mean and standard deviation for height are 44cm and 4cm respectively. Calculate coefficient of variation for yield and height respectively.

- (1) 9% and 11%
- (2) 10% and 9.1%
- (3) 9.1% and 12%
- (4) 9.1% and 10%

Answer Given By Candidate is : 2

37

Question ID : 4397

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following statements are correct in regard to the integument of insect?

- A. Cuticle is non-cellular layer secreted by epidermis
- B. Basement membrane contains mucopolysaccharides
- C. Plasma membrane of epidermal cells are joined by desmosomes
- D. Epicuticle is very thin and contains chitin
- E. Coloration in insect is due to melanin

Choose the correct answer from the options given below :

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

NOT ANSWERED

38

Question ID : 4398

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following host plant have only Kusumi lac insect on them ?

- (1) *Butea monosperma*
- (2) *Shorea oleosa*
- (3) *Ficus glomerata*
- (4) *Acacia catechu*

Answer Given By Candidate is : 2

39

Question ID : 4399

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Calculate the quantity of Malathion (20% EC) required for treating an area that requires 1000 litres of spray fluid at 0.05% strength.

- (1) 5 litres
- (2) 0.5 litres
- (3) 25 litres
- (4) 2.5 litres

Answer Given By Candidate is : 4

40

Question ID : 4400

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is a vector of Spike disease of Sandalwood ?

- (1) *Letana inflata*
- (2) *Zeuzera coffeae*
- (3) *Archips micacaeana*
- (4) *Coelidia indica*

Answer Given By Candidate is : 4

41

Question ID : 4401

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match the common name of the Bee (I) with their Scientific name (II)

List - I	List - II
Bee common name	Scientific name
A. Rock Bee	I. <i>Trigona iridipennis</i>
B. Little Bee	II. <i>Apis dorsata</i>
C. Black Dwarf Bee	III. <i>Apis florea</i>
D. Dammer Bee	IV. <i>Apis andreniformis</i>

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

42

Question ID : 4402

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is the vector of leishmaniasis or kala azar ?

- (1) *Phlebotomus argentipes*
- (2) *Siphunculina funicola*
- (3) *Simulium damnosum*
- (4) *Cimex hemipterus*

Answer Given By Candidate is : 1

43

Question ID : 4403

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is a largest phylum in animal kingdom ?

- (1) *Chelicerata*
- (2) *Arthropoda*
- (3) *Trilobita*
- (4) *Crustacea*

Answer Given By Candidate is : 2

44

Question ID : 4404

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Rasping type of mouth parts is found in _____.

- (1) Beetles
- (2) Thrips
- (3) Bugs
- (4) Butterflies

Answer Given By Candidate is : 2

45

Question ID : 4405

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Attack of a parasitoid on an insect which is already a parasite is known as :

- (1) Hyper parasitism
- (2) Super-parasitism
- (3) Multi-parasitism
- (4) Simple-parasitism

Answer Given By Candidate is : 1

46

Question ID : 4406

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I	List - II
Nature of damage	Pest
A. Dead hearts	I. Diamond back moth
B. Onion leaf of rice	II. Gall midge
C. Mustard as trap crop	III. Leaf miner
D. Soybean as trap crop	IV. Yellow stem borer

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

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

Answer Given By Candidate is : 2

47

Question ID : 4407

Topic Name : ENTOMOLOGY AND NEMATOLOGY

What is the percentage of land used for agriculture according to 2021-22 land use

- (1) 42.4%
- (2) 54.8%
- (3) 73.5%
- (4) 82.4%

Answer Given By Candidate is : 2

48

Question ID : 4408

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I	List - II
Phenomenon	Scientist/Terms
A. Pollination by beetles	I. Tansley
B. Ecology	II. Canthrophily
C. Ecosystem	III. Elton
D. Food chain	IV. Earnest Haeckel

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

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

Answer Given By Candidate is : 2

49

Question ID : 4409

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements :

Statement I : Rice weevil is an external feeder.

Statement II : Red flour beetle is an internal feeder.

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

NOT ANSWERED

50

Question ID : 4410

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements :

Statement I : The proximal part of vannus separated by jugal fold is jugal area

Statement II : The anterior area of the wing supported by veins is remigium

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

NOT ANSWERED

51

Question ID : 4411

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements : one is labelled as **Assertion A** and the other as **Reason R**.

Assertion A : Johnston's organ is present on pedicel which contains sensory cells

Reason R : Johnston's organ is present in non insect hexapods (collembola and Diplura)

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

Answer Given By Candidate is : 3

52

Question ID : 4412

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements : one is labelled as **Assertion A** and the other **Reason R**.

Assertion A : Three pair well developed thoracic legs are present in oligopod I

Reason R : Short-thoracic legs are present in compodiform larva for predation

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

NOT ANSWERED

53

Question ID : 4413

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following order is the largest order of class insecta ?

- (1) Coleoptera
- (2) Trichoptera
- (3) Lepidoptera
- (4) Diptera

Answer Given By Candidate is : 1

54

Question ID : 4414

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following belong to the group order paleoptera ?

- (1) Thysanura
- (2) Plecoptera
- (3) Ephemeroptera
- (4) Embioptera

Answer Given By Candidate is : 2

55

Question ID : 4415

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following insect have plumose type of antennae ?

- (1) Female culex
- (2) Male culex
- (3) Male moth
- (4) Female beetles

Answer Given By Candidate is : 2

56

Question ID : 4416

Topic Name : ENTOMOLOGY AND NEMATOLOGY

The insect order in which wings and body are covered with scales :

- (1) Coleoptera
- (2) Diptera
- (3) Lepidoptera
- (4) Hymenoptera

Answer Given By Candidate is : 3

57

Question ID : 4417

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following insect have filter chamber ?

- (1) White grub
- (2) Khapra beetle
- (3) Aphid
- (4) Butterflies

Answer Given By Candidate is : 3

58

Question ID : 4418

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In which of the following respiratory system, none of the spiracles are functional through body surface or gills ?

- (1) Apneustic respiratory system
- (2) Holopneustic respiratory system
- (3) Peripneustic respiratory system
- (4) Hemipneustic respiratory system

Answer Given By Candidate is : 1

59

Question ID : 4419

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I	List - II
Insect Pest	Damage Behaviour
A. Aphid	I. Propagative
B. Leaf hopper	II. Non propagative
C. White flies	III. Non persistent
D. Thrips	IV. Semipersistent

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

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

Answer Given By Candidate is : 3

60

Question ID : 4420

Match List - I with List - II.

List - I	List - II
Pest	Scientific Name
A. European corn borer	I. <i>Merodon equestris</i>
B. Greater bulb fly	II. <i>Nacolsia octasema</i>
C. Hessian fly	III. <i>Ostrinia nubilalis</i>
D. Banana scab moth	IV. <i>Mayetiola destructor</i>

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

Answer Given By Candidate is : 4

61

Question ID : 4421

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following statements are **correct** about Transpiration and Photosynthesis?

- A. C_4 Photosynthetic system maximize the availability of CO_2 and minimize H_2O loss.
- B. C_4 is more efficient than C_3 in fixing CO_2 .
- C. C_3 is more efficient than C_4 in fixing CO_2 .
- D. C_4 loses only half as much water as C_3 plant for same amount of CO_2 fixed.
- E. C_4 loses twice as much water as C_3 plant for same amount of CO_2 fixed.

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

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

Answer Given By Candidate is : 1

62

Question ID : 4422

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In cyclic photo-phosphorylation, the stroma lamellae membranes lack _____ and _____.

- (1) PSI & PSII
- (2) ATP & PSI
- (3) PSII & NADP
- (4) ATP & NADP

NOT ANSWERED

63

Question ID : 4423

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements :

Statement I : Abdomen is the second tergum of the insect body.

Statement II : Abdomen of advanced insects (beetles and flies) having 6 - 7 seg

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

Answer Given By Candidate is : 2

64

Question ID : 4424

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In electron transport chain, splitting of water is associated with _____.

- (1) PSI
- (2) PSII
- (3) NADP
- (4) NADPH

Answer Given By Candidate is : 1

65

Question ID : 4425

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Given below are two statements : one is labelled as **Assertion A** and the other is labelled **R**.

Assertion A : Tagmosis is the process of grouping of body segments of an insect in

Reason R : The insects cuticle, epidermis, and basement membrane collectively form integument/exoskeleton/body wall.

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

Answer Given By Candidate is : 2

66

Question ID : 4426

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following insects have hypognathous type of mouth part orientation

- (1) Grasshoppers
- (2) Moths
- (3) Aphids
- (4) Bugs

Answer Given By Candidate is : 1

67

Question ID : 4427

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Gladiators, African rock crawlers or hill-walkers belong to which of the following

- (1) Diptera
- (2) Mantodea
- (3) Blattodea
- (4) Mantophasmatodea

Answer Given By Candidate is : 4

68

Question ID : 4428

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Aristate type of antennae is found in which of the following insect ?

- (1) Housefly
- (2) Butterfly
- (3) Syrphidfly
- (4) Whitefly

Answer Given By Candidate is : 1

69

Question ID : 4429

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Frenate type of wings found in which insects from the following ?

- (1) Caddis flies
- (2) Moths
- (3) Grasshoppers
- (4) Fruit flies

Answer Given By Candidate is : 3

70

Question ID : 4430

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which layer is the origin of foregut in insects ?

- (1) Ectodermal
- (2) Endodermal
- (3) Ectodermal and Endodermal
- (4) Neither Ectodermal nor Endodermal

Answer Given By Candidate is : 1

71

Question ID : 4431

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Amphipneustic respiratory system commonly found in larvae of which of the following?

- (1) Homoptera
- (2) Isoptera
- (3) Orthoptera
- (4) Diptera

Answer Given By Candidate is : 4

72

Question ID : 4432

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In insects, how much % of hemolymph is found in body volume ?

- (1) 10-40%
- (2) 5-8%
- (3) 80-95%
- (4) 50-60%

Answer Given By Candidate is : 1

73

Question ID : 4433

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following are the pest of Man-Made industrial plantation ?

- (1) *Estigmaena chinensis* of Bamboo
- (2) *Hoploceramby spinicornus* of Sal
- (3) *Ips longifolia* of Deodar
- (4) *Cytorrhynchus resfescens* of Chir

NOT ANSWERED

74

Question ID : 4434

Topic Name : ENTOMOLOGY AND NEMATOLOGY

While working in a laboratory one student observed that the poison that she is using is blocking acetylcholinesterase activity in that pest. Based upon the mode of action, the poison is it ?

- (1) Physical poison
- (2) Protoplasmic poison
- (3) Respiratory poison
- (4) Nerve poison

Answer Given By Candidate is : 4

75

Question ID : 4435

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Arrange the following changes occurring during molting in insect in correct order:

- A. Endocuticle digestion
- B. Apolysis
- C. Epicuticle production
- D. Molting fluid resorbed
- E. New cuticle after ecdysis

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

- (1) A, B, C, D, E
- (2) B, C, A, D, E
- (3) B, C, D, E, A
- (4) A, E, D, C, B

Answer Given By Candidate is : 1

76

Question ID : 4436

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Pest of pulse)	List - II (Family)
A. Spotted pod borer	I. Noctuidae
B. Flower webber	II. Crambidae
C. Pod borer	III. Pterophoridae
D. Plume moth	IV. Pyralidae

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

NOT ANSWERED

77

Question ID : 4437

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Insect)	List - II (Order)
A. <i>Epiophlebia</i>	I. Coleoptera
B. <i>Lepisma</i>	II. Hymenoptera
C. <i>Apis</i>	III. Odonata
D. <i>Tribolium</i>	IV. Thysanura

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

Answer Given By Candidate is : 3

78

Question ID : 4438

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In which type of insect head, the mouth parts points forward and found in preys that actively pursue their prey, and in larval of coleoptera ?

- (1) Prognathous
- (2) Hypognathous
- (3) Opisthorynchous
- (4) Opisthognathous

Answer Given By Candidate is : 1

79

Question ID : 4439

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following statements is/are **incorrect** in regard to Halteres ?

- A. Haltere consists of basal lobe, stalk and an end-knob.
- B. Campaniform sensilla are present at basal lobe.
- C. Forewing of Diptera are modified to form halteres.
- D. Flexibility is on the dorsal surface near the base.
- E. Small group of campaniform sensilla at basal plate are called Hicks papillae

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

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

NOT ANSWERED

80

Question ID : 4440

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is **correct** in regards to the function of the substance released ?

- A. Octopamine is a Neuromodulator
- B. Glutamate is a Neurotransmitter
- C. Acetylcholine is a Neurotransmitter
- D. Cardioactive peptide is Neuromodulator
- E. PTH is a Neurohormone

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

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

NOT ANSWERED

81

Question ID : 4441

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Pterygotes)	List - II (Order group)
A. Odonata	I. Orthopteroid orders
B. Phasmida	II. Hemipteroid orders
C. Siphunculata	III. Panorpid orders
D. Siphonaptera	IV. Palaeopteran orders

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

Answer Given By Candidate is : 1

82

Question ID : 4442

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Pest of Sugarcane)	List - II (Family)
A. <i>Chilo infuscatellus</i>	I. Crambidae
B. <i>Scirpophaga excerptalis</i>	II. Pyralidae
C. <i>Pyrrilla perpusilla</i>	III. Lophopidae
D. <i>Ceratovacuna lanigera</i>	IV. Aphididae

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

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

Answer Given By Candidate is : 1

83

Question ID : 4443

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Zone of testicular follicle)	List - II (Characterstics)
A. Germarium	I. Spermatogonia to Spermatocytes
B. Zone of growth	II. Spermatids to Spermatozoa
C. Zone of division	III. Spermatogonia under go muliplicati
D. Zone of transformation	IV. Spemotocyte to Spermatids

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

Answer Given By Candidate is : 1

84

Question ID : 4444

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Why would the pupae of *Aedes* be unpigmented ?

- (1) Due to deficiency of tyrosine and phenylalanine in larval diet
- (2) Due to selective evolution of Pigmentation
- (3) Due to high fat accumulation
- (4) Due to reduction in fat and lipids

Answer Given By Candidate is : 1

85

Question ID : 4445

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In an apiary a bee hive was found. The comb was made of a cerumen and the bi tiny elipsoid Pellets. The honey gathered was also very less. Which honey bee is lil in this type of hive ?

- (1) *Apis laboriosa*
- (2) *Trigona iridipennis*
- (3) *Apis florea*
- (4) *Apis mellifera*

Answer Given By Candidate is : 2

86

Question ID : 4446

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Post)	List - II (Host/Plant)
A. <i>Leptocorisa acuta</i>	I. Sorghum
B. <i>Calocoris angustatus</i>	II. Rice
C. <i>Pyrilla perpusilla</i>	III. Castor
D. <i>Achae janata</i>	IV. Sugarcane

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

Answer Given By Candidate is : 1

87

Question ID : 4447

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Honey bee belongs to order hymenoptera. The wings of this insects are coupled to of hooks called hamuli. How may hamuli are there in a row ?

- (1) 20
- (2) 22
- (3) 25
- (4) 27

88

Question ID : 4448

Topic Name : ENTOMOLOGY AND NEMATOLOGY

During a field visit a student found an Insect, having 2 pairs of wings and when wings the scales got stick to his fingers. What is likely to be the order of this insect

- (1) Coleoptera
- (2) Diptera
- (3) Lepidoptera
- (4) Hymenoptera

Answer Given By Candidate is : 3

89

Question ID : 4449

Topic Name : ENTOMOLOGY AND NEMATOLOGY

The infection of *Meloidogyne incongnita* is known to increase one of the following diseases of *Phytophthora nicotianae* ?

- (1) Yellowing ear rot
- (2) Wilt in betel vine
- (3) Chlorosis complex
- (4) Tund disease

NOT ANSWERED

90

Question ID : 4450

Topic Name : ENTOMOLOGY AND NEMATOLOGY

What is the percentage of wilting effect of combined *Fusarium* fungus and *Meloidogyne* on cotton ?

- (1) 4 %
- (2) 20 %
- (3) 65 %
- (4) 90 %

NOT ANSWERED

91

Question ID : 4451

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following order of nematodes contains species that feed on plant parasites ?

- (1) Rhabditida
- (2) Dorylaimida
- (3) Triplonchida
- (4) Aphelenchida

NOT ANSWERED

92

Question ID : 4452

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is the infective stage of *Meloidogyne* spp. for the plants ?

- (1) J₁
- (2) J₂
- (3) J₃
- (4) J₄

Answer Given By Candidate is : 2

93

Question ID : 4453

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following nematode is associated with the transmission of virus in tobacco ?

- (1) *Trichodorus pachydermus*
- (2) *Meloidogyne incognita*
- (3) *Xiphinema index*
- (4) *Xiphinema americanum*

NOT ANSWERED

94

Question ID : 4454

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Combined infection of *Aphelenchoides fragariae* and *Corynebacterium fascians* in strawberry results into :

- (1) Tund disease
- (2) Cauliflower disease
- (3) Yellowing ear rot
- (4) Wilt in betel

Answer Given By Candidate is : 2

95

Question ID : 4455

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is an ectoparasitic nematode ?

- (1) *Globodera* spp.
- (2) *Meloidogyne* spp.
- (3) *Hirschmanniella* spp.
- (4) *Longidorus* spp.

Answer Given By Candidate is : 3

96

Question ID : 4456

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is a cyst nematode ?

- (1) *Globodera* spp.
- (2) *Tylenchorchynchus* spp.
- (3) *Longidorus* spp.
- (4) *Xiphinema* spp.

Answer Given By Candidate is : 1

97

Question ID : 4457

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following nematode is associated with transmission of virus for yellow peaches ?

- (1) *Xiphinema index*
- (2) *Meloidogyne hapla*
- (3) *Xiphinema americanum*
- (4) *Meloidogyne javanica*

NOT ANSWERED

98

Question ID : 4458

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is **not** used as biopesticides against nematodes ?

- (1) *Trichoderma harzianum*
- (2) *Pseudomonas fluorescens*
- (3) *Paecilomyces lilacinus*
- (4) *Ditylenchus dipsaci*

Answer Given By Candidate is : 4

99

Question ID : 4459

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Order)	List - II (Genus)
A. Triplonchida	I. <i>Xiphinema</i>
B. Dorylaimida	II. <i>Paratrichodorus</i>
C. Aphelenchida	III. <i>Meloidogyne</i>
D. Rhabditida	IV. <i>Bursaphelenchus</i>

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

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

Answer Given By Candidate is : 3

100

Question ID : 4460

Match List - I with List - II.

List - I (Genus)	List - II (Common Name)
A. <i>Tylenchorhynchus</i>	I. Stem or bulb nematode
B. <i>Globodera</i>	II. Stubby-root nematode of sugar beet and potato
C. <i>Ditylenchus</i>	III. Stunt nematode of tobacco
D. <i>Trichodorus</i>	IV. Round cyst nematode of potato

Choose the correct answer from the options given below :

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

Answer Given By Candidate is : 3

101

Question ID : 4461

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Host Plants)	List - II (Nematode genus)
A. Alfalfa, onion	I. <i>Ditylenchus</i>
B. Cotton, Soybean, Strawberry	II. <i>Tylenchulus</i>
C. Citrus, Grapes, Olive	III. <i>Radopholus</i>
D. Banana, Coffee, Sugarcane	IV. <i>Aphelenchoides</i>

Choose the correct answer from the options given below :

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

Answer Given By Candidate is : 2

102

Question ID : 4462

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following approximate death percentage is combined effect of *Meloidogyne javanica* on cowpea seedlings ?

- (1) 10% death
- (2) 40% death
- (3) 60% death
- (4) 80% death

NOT ANSWERED

103

Question ID : 4463

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following order of nematodes have odontostylet type of mouth parts?

- (1) Triplonchida
- (2) Aphelenchida
- (3) Dorylaimida
- (4) Rhabditida

NOT ANSWERED

104

Question ID : 4464

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is the largest plant parasitic nematode in size ?

- (1) *Dolichodorus*
- (2) *Trichodorus*
- (3) *Radopholus*
- (4) *Paratylenchus*

Answer Given By Candidate is : 2

105

Question ID : 4465

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is not eco-race of Eri silkworm ?

- (1) Mendipathar
- (2) Sille
- (3) Dhanubhanga
- (4) Sarupat

NOT ANSWERED

106

Question ID : 4466

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following Silkworm is endemic to North-Eastern India ?

- (1) *Philosamia ricini*
- (2) *Antheraea assamensis*
- (3) *Antheraea proylei*
- (4) *Antheraea mylitta*

Answer Given By Candidate is : 2

107

Question ID : 4467

Topic Name : ENTOMOLOGY AND NEMATOLOGY

The third phase of PEBS project (Project for Strengthening Extension System for Bivolt) was highly successful in which of the following States ?

- (1) Karanataka, Tamil Nadu and Andhra Pradesh
- (2) Keralam, Karanataka and Andhra Pradesh
- (3) Tamil Nadu, Odisha and Andhra Pradesh
- (4) Bihar, Tamil Nadu and Odisha

NOT ANSWERED

108

Question ID : 4468

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In which year (From to) world bank-assisted Karnataka Sericulture Project (KSP) was

- (1) 1991 to 1997
- (2) 1989 to 1998
- (3) 1980 to 1988
- (4) 1991 to 2007

NOT ANSWERED

109

Question ID : 4469

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is a serious endo-larval Parasitoid of Silkworm, '*Bombyx n*

- (1) *Nesolynx thymus*
- (2) *Exorista bombycis*
- (3) *Quercus dealbata*
- (4) *Quercus incana*

Answer Given By Candidate is : 2

110

Question ID : 4470

Topic Name : ENTOMOLOGY AND NEMATOLOGY

In the management of mulberry disease, a bioformulation was developed named biological organism was used in this bioformulation ?

- (1) *Verticillium Chlamydosporium*
- (2) *Trichoderma harzianum*
- (3) *Cryptolaemus montrouzieri*
- (4) *Trichoderma pseudokoningii*

NOT ANSWERED

111

Question ID : 4471

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is an extinct indigenous Silkworm races of India ?

- (1) Chotapolu
- (2) Lamarine
- (3) Cnichi
- (4) Moria

NOT ANSWERED

112

Question ID : 4472

Topic Name : ENTOMOLOGY AND NEMATOLOGY

What is the unit of thickness of the Silk filament ?

- (1) Micrometer
- (2) Millimeter
- (3) Percentage
- (4) Denier

Answer Given By Candidate is : 4

113

Question ID : 4473

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following disinfectant used in Sericulture Management was developed in Mysore, India ?

- (1) Suraksha
- (2) Sanjeevani
- (3) Resham Jyothi
- (4) Vijetha

Answer Given By Candidate is : 1

114

Question ID : 4474

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following disease of Silkworm is caused by transovarian transmission of *Nosema bombycis* ?

- (1) Pebrine
- (2) Grasserie
- (3) Flacherie
- (4) Muscardine

Answer Given By Candidate is : 1

115

Question ID : 4475

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is **not** a multivoltine Silkworm race of India ?

- (1) Nistari
- (2) Sarupat
- (3) Borapolu
- (4) Pure Mysore

NOT ANSWERED

116

Question ID : 4476

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following is a Mulberry Silkworm ?

- (1) *Samia cynthia ricini*
- (2) *Bombyx mori meridionalis*
- (3) *Antheraea mylitta*
- (4) *Antheraea assamensis*

Answer Given By Candidate is : 2

117

Question ID : 4477

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Match List - I with List - II.

List - I (Silkworm)	List - II (Scientific Names)
A. Muga Silkworm	I. <i>Antheraea Mylitta</i>
B. Tropical tasar Silkworm	II. <i>Antheraea assamensis</i>
C. Oak tasar Silkworm	III. <i>Philosamia ricini</i>
D. Eri Silkworm	IV. <i>Antheraea proylei</i>

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

Answer Given By Candidate is : 1

118

Question ID : 4478

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Central Sericulture Research and Training Institute is located in which of the following

- (1) Chennai
- (2) Mysore
- (3) Meghalaya
- (4) Andhra Pradesh

Answer Given By Candidate is : 2

119

Question ID : 4479

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Which of the following statements are **correct** about Silk industry ?

- A. *Bombyx mori* is monophagous insects that feed on Mulberry
- B. INMS stands for integrated nutrient Mulberry system
- C. Drip system of irrigation is efficient for Mulberry ensure 40% water saving
- D. Nistari is an indigenous race of Silkworm from West Bengal
- E. Vijetha a disinfectant was developed by CSR & TI Berhampore

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

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

Answer Given By Candidate is : 3

120

Question ID : 4480

Topic Name : ENTOMOLOGY AND NEMATOLOGY

Arrange the sequence of countries in Raw Silk Production in Decreasing order.

- A. Uzbekistan
- B. China
- C. India
- D. Korea Republic
- E. Brazil

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

- (1) C, B, D, A, E
- (2) B, C, A, E, D
- (3) B, C, E, A, D
- (4) B, C, D, A, E

Answer Given By Candidate is : 4