

ENTOMOLOGY AND NEMATOLOGY ICAR SEPT 2022

Topic:- 04 ENTOMOLOGY AND NEMATOLOGY_PG

1) Which of the following is related to photoperiodical classification of plants?

- A. Short day plants
- B. Long day plants
- C. Day neutral plants
- D. Vernalization

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

[Question ID = 241][Question Description = 101_33_ENM_AUG22_Q01]

- 1. A only [Option ID = 961]
- 2. A and B only [Option ID = 962]
- 3. C and D only [Option ID = 963]
- 4. A, B and C only [Option ID = 964]

2) The widely recommended oil to ease out arterial cholesterol deposition is

[Question ID = 242][Question Description = 102_33_ENM_AUG22_Q02]

- 1. Ground nut oil [Option ID = 965]
- 2. Mustard oil [Option ID = 966]
- 3. Sunflower oil [Option ID = 967]
- 4. Coconut oil [Option ID = 968]

3) The tomato variety suitable for cultivation both at high and low temperature is

[Question ID = 243][Question Description = 103_33_ENM_AUG22_Q03]

- 1. Selection-60 [Option ID = 969]
- 2. Pusa Sadabahar [Option ID = 970]
- 3. Pusa Gaurav [Option ID = 971]
- 4. Pusa Uphar [Option ID = 972]

4) The 17th essential micronutrient recently identified for the plant growth and development is

[Question ID = 244][Question Description = 104_33_ENM_AUG22_Q04]

- 1. Vanadium [Option ID = 973]
- 2. Cobalt [Option ID = 974]
- 3. Nickel [Option ID = 975]
- 4. Silicon [Option ID = 976]

5) The soil Health Card Scheme (Swasth Dhara, Khet Hara) in India was launched in the year

[Question ID = 245][Question Description = 105_33_ENM_AUG22_Q05]

- 1. 2016 [Option ID = 977]
- 2. 2017 [Option ID = 978]
- 3. 2018 [Option ID = 979]
- 4. 2015 [Option ID = 980]

6) The first super fine aromatic basmati rice cultivar is [Question ID = 246][Question Description = 106_33_ENM_AUG22_Q06]

- 1. Pusa 1460 [Option ID = 981]
- 2. Pusa Basmati 1121 [Option ID = 982]
- 3. Vandana [Option ID = 983]
- 4. Pusa Rice Hybrid-10 [Option ID = 984]

7) Black soils are most suited for the [Question ID = 247][Question Description = 107_33_ENM_AUG22_Q07]

- 1. Conservation Agriculture [Option ID = 985]
- 2. Dry land agriculture [Option ID = 986]
- 3. Temperate agriculture [Option ID = 987]
- 4. Water conservation agriculture [Option ID = 988]

8) Which of the following is grown with wheat as a mixed crop?

- A. Mustard and chickpea
- B. Sunflower and linseed
- C. Okra and green peas
- D. Sunflower and raagi

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

[Question ID = 248][Question Description = 108_33_ENM_AUG22_Q08]

- 1. A only [Option ID = 989]
- 2. B only [Option ID = 990]
- 3. C only [Option ID = 991]
- 4. D only [Option ID = 992]

9) Cropping system is mostly affected by[Question ID = 249][Question Description = 109_33_ENM_AUG22_Q09]

- 1. Resource base [Option ID = 993]
- 2. Technology [Option ID = 994]
- 3. Agro-climatic zone [Option ID = 995]
- 4. Farmer's preferences [Option ID = 996]

10) The seed rate of wheat under normal agronomical practices is

[Question ID = 250][Question Description = 110_33_ENM_AUG22_Q10]

- 1. 50 kg/ha [Option ID = 997]
- 2. 75 kg/ha [Option ID = 998]
- 3. 100 kg/ha [Option ID = 999]
- 4. 125 kg/ha [Option ID = 1000]

11) Given below are two statements

Statement I: The role of extension education in India is performed by State Agriculture Universities

Statement II: The two important principles of extension education are participation and leadership

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

[Question ID = 251][Question Description = 111_33_ENM_AUG22_Q11]

- 1. Both Statement I and Statement II are correct [Option ID = 1001]
- 2. Both Statement I and Statement II are incorrect [Option ID = 1002]
- 3. Statement I is correct but Statement II is incorrect [Option ID = 1003]
- 4. Statement I is incorrect but Statement II is correct [Option ID = 1004]

12) Given below are two statements

Statement I: In relative income theory of consumption, APC will be constant.

Statement II: Immature growth theory refers to a country, where gains of growth are more than terms of trade.

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

[Question ID = 252][Question Description = 112_33_ENM_AUG22_Q12]

- 1. Both Statement I and Statement II are correct
[Option ID = 1005]
- 2. Both Statement I and Statement II are incorrect
[Option ID = 1006]
- 3. Statement I is correct but Statement II is incorrect
[Option ID = 1007]
- 4. Statement I is incorrect but Statement II is correct
[Option ID = 1008]

13) Given below are two statements

Statement I: Nitrogen deficiency in plants leads to chlorosis

Statement II: NPK in plants are regarded as non-essential nutrients

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

[Question ID = 253][Question Description = 113_33_ENM_AUG22_Q13]

1. Both Statement I and Statement II are correct [Option ID = 1009]
2. Both Statement I and Statement II are incorrect [Option ID = 1010]
3. Statement I is correct but Statement II is incorrect [Option ID = 1011]
4. Statement I is incorrect but Statement II is correct [Option ID = 1012]

14) Given below are two statements

Statement I: Nendran banana is commonly used for making chips.

Statement II: Grape is more tolerant to salinity than ber.

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

[Question ID = 254][Question Description = 114_33_ENM_AUG22_Q14]

1. Both Statement I and Statement II are correct [Option ID = 1013]
2. Both Statement I and Statement II are incorrect [Option ID = 1014]
3. Statement I is correct but Statement II is incorrect [Option ID = 1015]
4. Statement I is incorrect but Statement II is correct [Option ID = 1016]

15) Given below are two statements

Statement I: Pusa Snowball is a variety of cauliflower and its elite part is curd

Statement II: Whiptail of cauliflower is due to deficiency of Boron

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

[Question ID = 255][Question Description = 115_33_ENM_AUG22_Q15]

1. Both Statement I and Statement II are correct [Option ID = 1017]
2. Both Statement I and Statement II are incorrect [Option ID = 1018]
3. Statement I is correct but Statement II is incorrect [Option ID = 1019]
4. Statement I is incorrect but Statement II is correct [Option ID = 1020]

16) Match List I with List II

List I	List II
A. Pusa Surya	I. Cauliflower
B. Pusa Kesari	II. Mango
C. Satyabhama	III. Pea
D. Pusa Pragati	IV. Rice

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

[Question ID = 256][Question Description = 116_33_ENM_AUG22_Q16]

1. A-II, B-I, C-IV, D-III [Option ID = 1021]
2. A-III, B-IV, C-I, D-II [Option ID = 1022]
3. A-I, B-II, C-III, D-IV [Option ID = 1023]
4. A-III, B-II, C-IV, D-I [Option ID = 1024]

17) Match List I with List II

List I	List II
A. Pusa -3022	I. Mustard
B. Pusa Double Zero	II. Soybean
C. Pusa -12	III. Pigeonpea
D. Pusa -992	IV. Chickpea

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

[Question ID = 257][Question Description = 117_33_ENM_AUG22_Q17]

1. A-I, B-II, C-III, D-IV [Option ID = 1025]
2. A-IV, B-I, C-II, D-III [Option ID = 1026]
3. A-IV, B-III, C-II, D-I [Option ID = 1027]
4. A-III, B-I, C-II, D-IV [Option ID = 1028]

18) Match List I with List II

List I	List II
A. CIPHET	I. Bhopal
B. CSWCRTI	II. Lucknow

C. IISS	III. Dehradun
D. IISR	IV. Ludhiana

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

[Question ID = 258][Question Description = 118_33_ENM_AUG22_Q18]

1. A-I, B-II, C-III, D-IV [Option ID = 1029]
2. A-II, B-III, C-IV, D-I [Option ID = 1030]
3. A-III, B-I, C-II, D-IV [Option ID = 1031]
4. A-IV, B-III, C-I, D-II [Option ID = 1032]

19) Match List I with List II

List I	List II
A. Cow pea	I. <i>Vigna sinensis</i>
B. French bean	II. <i>Phaseolus vulgaris</i>
C. Cluster bean	III. <i>Cymopsis tetragonoloba</i>
D. Indian bean	IV. <i>Dolichos lablab</i>

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

[Question ID = 259][Question Description = 119_33_ENM_AUG22_Q19]

1. A-I, B-II, C-III, D-IV [Option ID = 1033]
2. A-II, B-III, C-IV D-I [Option ID = 1034]
3. A-III, B-I, C-II, D-IV [Option ID = 1035]
4. A-IV, B-III, C-I, D-II [Option ID = 1036]

20) Match List I with List II

List I	List II
A. Cotton	I. Rajasthan
B. Barley	II. Madhya Pradesh
C. Gram	III. Maharashtra
D. Groundnut	IV. Gujarat

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

[Question ID = 260][Question Description = 120_33_ENM_AUG22_Q20]

1. A-II, B-IV, C-I, D-III [Option ID = 1037]
2. A-III, B-I, C-II, D-IV [Option ID = 1038]
3. A-IV, B-III, C-II, D-I [Option ID = 1039]
4. A-II, B-III, C-IV, D-I [Option ID = 1040]

21) Match List I with List II

List I	List II
A. Labium	I. Second maxillae
B. Proboscis	II. Food Canal
C. Labrum	III. Muscles
D. Abductor	IV. Upper lip

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

[Question ID = 261][Question Description = 121_33_ENM_AUG22_Q21]

1. A-III, B-II, C-I, D-IV [Option ID = 1041]
2. A-II, B-I, C-IV, D-III [Option ID = 1042]
3. A-II, B-I, C-III, D-IV [Option ID = 1043]
4. A-I, B-II, C-IV, D-III [Option ID = 1044]

22) Match List I with List II

List I	List II
A. Stylete	I. Grasshopper
B. Filiform	II. Horsefly
C. Moniliform	III. Ant
D. Geniculate	IV. Termite

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

[Question ID = 262][Question Description = 122_33_ENM_AUG22_Q22]

1. A-III, B-II, C-I, D-IV [Option ID = 1045]

2. A-II, B-I, C-IV, D-III [Option ID = 1046]
3. A-II, B-I, C-III, D-IV [Option ID = 1047]
4. A-I, B-II, C-IV, D-III [Option ID = 1048]

23) Match List I with List II

List I	List II
A. Raptorial legs	I. Cockroaches
B. Pollen carrying legs	II. Mantids
C. Cursorial legs	III. Mole crickets
D. Fossorial legs	IV. Honey bee

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

[Question ID = 263][Question Description = 123_33_ENM_AUG22_Q23]

1. A-I, B-II, C-III, D-IV [Option ID = 1049]
2. A-II, B-I, C-IV, D-III [Option ID = 1050]
3. A-II, B-IV, C-I, D-III [Option ID = 1051]
4. A-I, B-II, C-IV, D-III [Option ID = 1052]

24) Given below are two statements

Statement I: The pollen basket in honey bee worker is situated on femur

Statement II: The pollen basket in honey bee worker is situated on tibia

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

[Question ID = 264][Question Description = 124_33_ENM_AUG22_Q24]

1. Both Statement I and Statement II are correct [Option ID = 1053]
2. Both Statement I and Statement II are incorrect [Option ID = 1054]
3. Statement I is incorrect but Statement II is correct [Option ID = 1055]
4. Statement I is correct but Statement II is incorrect [Option ID = 1056]

25) Given below are two statements

Statement I: In an insect, the anterior margin of the wing is called the coastal margin

Statement II: In an insect the angle at the base of the wing is called the humeral angle

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

[Question ID = 265][Question Description = 125_33_ENM_AUG22_Q25]

1. Both Statement I and Statement II are correct [Option ID = 1057]
2. Both Statement I and Statement II are incorrect [Option ID = 1058]
3. Statement I is incorrect but Statement II is correct [Option ID = 1059]
4. Statement I is correct but Statement II is incorrect [Option ID = 1060]

26) Given below are two statements

Statement I: The correct order of segments in an insect leg is coxa-trochanter- femur-tibia and tarsus

Statement II: Infossorial legs, the forelegs are greatly expanded and tibia is digitate

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

[Question ID = 266][Question Description = 126_33_ENM_AUG22_Q26]

1. Both Statement I and Statement II are correct
[Option ID = 1061]
2. Both Statement I and Statement II are incorrect
[Option ID = 1062]
3. Statement I is incorrect but Statement II is correct
[Option ID = 1063]
4. Statement I is correct but Statement II is incorrect
[Option ID = 1064]

27) Given below are two statements

Statement I: Rasping and sucking type mouth parts are present in Thrips

Statement II: Chewing and lapping type mouth parts are present in honey bees

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

[Question ID = 267][Question Description = 127_33_ENM_AUG22_Q27]

1. Both Statement I and Statement II are correct [Option ID = 1065]
2. Both Statement I and Statement II are incorrect [Option ID = 1066]
3. Statement I is incorrect but Statement II is correct [Option ID = 1067]
4. Statement I is correct but Statement II is incorrect [Option ID = 1068]

28) Given below are two statements

Statement I: Plumose antennae are present in female mosquito

Statement II: Pilose antennae are present in male mosquito

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

[Question ID = 268][Question Description = 128_33_ENM_AUG22_Q28]

1. Both Statement I and Statement II are correct [Option ID = 1069]
2. Both Statement I and Statement II are incorrect [Option ID = 1070]
3. Statement I is incorrect but Statement II is correct [Option ID = 1071]
4. Statement I is correct but Statement II is incorrect [Option ID = 1072]

29) Given below are two statements

Statement I: Cell sap and water, both are permeable to cell membrane

Statement II: Cell sap and water, both are impermeable to cell membrane

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

[Question ID = 269][Question Description = 129_33_ENM_AUG22_Q29]

1. Both Statement I and Statement II are correct [Option ID = 1073]
2. Both Statement I and Statement II are incorrect [Option ID = 1074]
3. Statement I is correct but Statement II is incorrect [Option ID = 1075]
4. Statement I is incorrect but Statement II is correct [Option ID = 1076]

30) In woody plants and many fruits, transpiration takes place from:

[Question ID = 270][Question Description = 130_33_ENM_AUG22_Q30]

1. Stomata
[Option ID = 1077]
2. Lenticel
[Option ID = 1078]
3. Leaf
[Option ID = 1079]
4. Epidermis
[Option ID = 1080]

31) Selective permeability is the characteristic feature of:

[Question ID = 271][Question Description = 131_33_ENM_AUG22_Q31]

1. Cell wall
[Option ID = 1081]
2. Root Hair
[Option ID = 1082]
3. Plasma membrane
[Option ID = 1083]
4. Pseudo-stem
[Option ID = 1084]

32) The honey bee worker that always attend the queen is:

[Question ID = 272][Question Description = 132_33_ENM_AUG22_Q32]

1. Fanner bee
[Option ID = 1085]
2. Guard bee

[Option ID = 1086]

3. Retinue bee

[Option ID = 1087]

4. Cleaner bee

[Option ID = 1088]

33) The water which occurs within the spaces of soil particles is:

[Question ID = 273][Question Description = 133_33_ENM_AUG22_Q33]

1. Capillary water

[Option ID = 1089]

2. Ground water

[Option ID = 1090]

3. Surface water

[Option ID = 1091]

4. Hygroscopic water

[Option ID = 1092]

34) Continuous variations because of additive effects of two or more genes for a trait is:

[Question ID = 274][Question Description = 134_33_ENM_AUG22_Q34]

1. Complementarity

[Option ID = 1093]

2. Epistasis

[Option ID = 1094]

3. Dominant

[Option ID = 1095]

4. Polygenic

[Option ID = 1096]

35) Mendel's work was rediscovered by:

[Question ID = 275][Question Description = 135_33_ENM_AUG22_Q35]

1. Avery, McCarty and MacLeod

[Option ID = 1097]

2. Sutton and Boveri

[Option ID = 1098]

3. Hershey and Chase

[Option ID = 1099]

4. De Vries, Correns and Tschermak

[Option ID = 1100]

36) The antennae are absent in:

[Question ID = 276][Question Description = 136_33_ENM_AUG22_Q36]

1. Mallophaga

[Option ID = 1101]

2. Diplura

[Option ID = 1102]

3. Anoplura

[Option ID = 1103]

4. Protura

[Option ID = 1104]

37) Given below are two statements

Statement I: In hemipneustic type of respiratory system, 8 pairs spiracles are present

Statement II: The tracheoles remain filled with air

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

[Question ID = 277][Question Description = 137_33_ENM_AUG22_Q37]

1. Both Statement I and Statement II are correct

[Option ID = 1105]

2. Both Statement I and Statement II are incorrect

[Option ID = 1106]

3. Statement I is correct, but Statement II is incorrect

[Option ID = 1107]

4. Statement I is incorrect, but Statement II is correct

[Option ID = 1108]

38) Given below are two statements

Statement I: Spermatophores are rare or absent in Hymenoptera

Statement II: *Periplaneta* has 60 Malpighian tubules

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

[Question ID = 278][Question Description = 138_33_ENM_AUG22_Q38]

1. Both Statement I and Statement II are correct [Option ID = 1109]
2. Both Statement I and Statement II are incorrect [Option ID = 1110]
3. Statement I is correct but Statement II is incorrect [Option ID = 1111]
4. Statement I is incorrect but Statement II is correct [Option ID = 1112]

39) Match List I with List II

List I	List II
A. Placoid sensilla	I. Shallow pits
B. Basiconic sensilla	II. Hairless
C. Coeloconic sensilla	III. Deep pits
D. Ampullaceous sensilla	IV. Peg like process

Choose the correct answer from the options given below:

[Question ID = 279][Question Description = 139_33_ENM_AUG22_Q39]

1. A-I, B-II, C-III, D-IV [Option ID = 1113]
2. A-II, B-I, C-IV, D-III [Option ID = 1114]
3. A-II, B-IV, C-I, D-III [Option ID = 1115]
4. A-I, B-II, C-IV, D-III [Option ID = 1116]

40) Match List I with List II

List I	List II
A. Grub	I. Apodus
B. Maggot	II. Thoracic legs
C. Caterpillar	III. International pest
D. Desert locust	IV. Thoracic and abdominal legs

Choose the correct answer from the options given below:

[Question ID = 280][Question Description = 140_33_ENM_AUG22_Q40]

1. A-I, B-II, C-III, D-IV [Option ID = 1117]
2. A-II, B-I, C-IV, D-III [Option ID = 1118]
3. A-II, B-IV, C-I, D-III [Option ID = 1119]
4. A-I, B-II, C-IV, D-III [Option ID = 1120]

41) Which of the following is a nematode pest of Maize?

- A. Lesion Nematode
B. Root Knot Nematode
C. Lance Nematode
D. Stunt Nematode

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

[Question ID = 281][Question Description = 141_33_ENM_AUG22_Q41]

1. A, B and D only [Option ID = 1121]

2. A, C and D only [Option ID = 1122]
3. A, B, C and D [Option ID = 1123]
4. B, C and D only [Option ID = 1124]

42) Given below are two statements

Statement I: Soil solarization is a relatively recent and sophisticated physical management of soil borne nematodes utilizing the principle of moist heat.

Statement II: Soil solarization is a relatively recent and sophisticated physical management of soil borne nematodes utilizing the principle of synthetic pesticides.

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

[Question ID = 282][Question Description = 142_33_ENM_AUG22_Q42]

1. Both Statement I and Statement II are correct [Option ID = 1125]
2. Both Statement I and Statement II are incorrect [Option ID = 1126]
3. Statement I is correct but Statement II is incorrect [Option ID = 1127]
4. Statement I is incorrect but Statement II is correct [Option ID = 1128]

43) The first acceptor of carbon dioxide in C4 plant is:

[Question ID = 283][Question Description = 143_33_ENM_AUG22_Q43]

1. Malic acid
[Option ID = 1129]
2. Aspartic acid
[Option ID = 1130]
3. Oxalo acetic acid
[Option ID = 1131]
4. Phosphoenol pyruvic acid
[Option ID = 1132]

44) Given below are two statements:

Statement I: The witches broom of legumes is caused by viruses

Statement II: The witches broom of legumes is caused by bacteria

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

[Question ID = 284][Question Description = 144_33_ENM_AUG22_Q44]

1. Both Statement I and Statement II are correct [Option ID = 1133]
2. Both Statement I and Statement II are incorrect [Option ID = 1134]
3. Statement I is correct but Statement II is incorrect [Option ID = 1135]
4. Statement I is incorrect but Statement II is correct [Option ID = 1136]

45) Match List I with List II

List I	List II
A. Root nodules	I. <i>Azobactor</i>
B. Fungus	II. <i>Rhizobium</i>
C. Biofertilizer	III. <i>Mycorrhiza</i>
D. Oxidation	IV. <i>Nitrobactor</i>

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

[Question ID = 285][Question Description = 145_33_ENM_AUG22_Q45]

1. A-II, B-III, C-I, D-IV [Option ID = 1137]
2. A-I, B-II, C-III, D-IV [Option ID = 1138]
3. A-III, B-II, C-IV, D-I [Option ID = 1139]
4. A-IV, B-III, C-II, D-I [Option ID = 1140]

46) When biological diversity is maintained in natural habitat, the conservation is called?

[Question ID = 286][Question Description = 146_33_ENM_AUG22_Q46]

1. *In vivo*
[Option ID = 1141]
2. *In vitro*
[Option ID = 1142]

3. *In situ*

[Option ID = 1143]

4. *Ex situ*

[Option ID = 1144]

47) Given below are two statements

Statement I: Photosynthetic bacteria do not contain PS-I

Statement II: Photosynthetic bacteria do not contain PS-II

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

[Question ID = 287][Question Description = 147_33_ENM_AUG22_Q47]

1. Both Statement I and Statement II are correct

[Option ID = 1145]

2. Both Statement I and Statement II are incorrect

[Option ID = 1146]

3. Statement I is correct, but Statement II is incorrect

[Option ID = 1147]

4. Statement I is incorrect, but Statement II is correct

[Option ID = 1148]

48) The first edition of the book “Systema Naturae” was published in the year 1735 by:

[Question ID = 288][Question Description = 148_33_ENM_AUG22_Q48]

1. Carl Linnaeus [Option ID = 1149]

2. Johan Friedrich Gmelin [Option ID = 1150]

3. Johan Christian Fabricius [Option ID = 1151]

4. William Kirby [Option ID = 1152]

49) The foundation of insect taxonomy was laid down by:

[Question ID = 289][Question Description = 149_33_ENM_AUG22_Q49]

1. Fabricius [Option ID = 1153]

2. Linnaeus [Option ID = 1154]

3. Hampson [Option ID = 1155]

4. Tiliyard [Option ID = 1156]

50) The type of hind wings found in beetles is:

[Question ID = 290][Question Description = 150_33_ENM_AUG22_Q50]

1. Elytra

[Option ID = 1157]

2. Hemielytra

[Option ID = 1158]

3. Tegmina

[Option ID = 1159]

4. Membranous

[Option ID = 1160]

51) A free living non-symbiotic anaerobic bacterium is:

[Question ID = 291][Question Description = 151_33_ENM_AUG22_Q51]

1. *Chromatium* sp.

[Option ID = 1161]

2. *Beijerinchia* sp

[Option ID = 1162]

3. *Klebsiella pneumoniae*

[Option ID = 1163]

4. *Clostridium pasteurianum*

[Option ID = 1164]

52) Booklice belongs to the insect order:

[Question ID = 292][Question Description = 152_33_ENM_AUG22_Q52]

1. Isoptera [Option ID = 1165]
2. Psocoptera [Option ID = 1166]
3. Mallophaga [Option ID = 1167]
4. Hemiptera [Option ID = 1168]

53) Body and wings covered with pigmented scales are present in:

[Question ID = 293][Question Description = 153_33_ENM_AUG22_Q53]

1. Diptera [Option ID = 1169]
2. Lepidoptera [Option ID = 1170]
3. Hymenoptera [Option ID = 1171]
4. Odonata [Option ID = 1172]

54) Proventriculus is rudimentary or absent in:

[Question ID = 294][Question Description = 154_33_ENM_AUG22_Q54]

1. Homoptera [Option ID = 1173]
2. Lepidoptera [Option ID = 1174]
3. Coleoptera [Option ID = 1175]
4. Orthoptera [Option ID = 1176]

55) Furcula is present only in:

[Question ID = 295][Question Description = 155_33_ENM_AUG22_Q55]

1. Mayflies [Option ID = 1177]
2. Springtails [Option ID = 1178]
3. Silverfish [Option ID = 1179]
4. Grasshoppers [Option ID = 1180]

56)	List I	List II
	A. Decapoda	I. Tick, mite, spider, scorpion
	B. Arachnida	II. Crayfish, shrimps, lobster
	C. Insecta	III. Millipedes
	D. Diplopoda	IV. Bedbug, mosquito, grasshopper

Choose the correct answer from the options given below:

[Question ID = 296][Question Description = 156_33_ENM_AUG22_Q56]

1. A-I, B-II, C-III, D-IV [Option ID = 1181]
2. A-II, B-I, C-IV, D-III [Option ID = 1182]
3. A-II, B-I, C-III, D-IV [Option ID = 1183]
4. A-I, B-II, C-IV, D-III [Option ID = 1184]

57) Given below are two statements

Statement I: Malpighian tubules are absent in the Collembola and aphids

Statement II: Cryptonephridial system is present in many coleopterans

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

[Question ID = 297][Question Description = 157_33_ENM_AUG22_Q57]

1. Both Statement I and Statement II are correct [Option ID = 1185]
2. Both Statement I and Statement II are incorrect [Option ID = 1186]
3. Statement I is correct but Statement II is incorrect [Option ID = 1187]
4. Statement I is incorrect but Statement II is correct [Option ID = 1188]

58) Given below are two statements

Statement I: In some insects, fat bodies are also involved in uric acid production

Statement II: Fat bodies in insects are present in Malpighian tubules of cockroaches

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

[Question ID = 298][Question Description = 158_33_ENM_AUG22_Q58]

1. Both Statement I and Statement II are correct [Option ID = 1189]
2. Both Statement I and Statement II are incorrect [Option ID = 1190]
3. Statement I is correct but Statement II is incorrect [Option ID = 1191]

4. Statement I is incorrect but Statement II is correct [Option ID = 1192]

59) Given below are two statements

Statement I: Ammonia, urea, and uric acid are principal nitrogenous excretory products formed by animals.

Statement II: The number of malpighian tubules in insects can range from 2 in coccids, to about 250 in some insects.

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

[Question ID = 299][Question Description = 159_33_ENM_AUG22_Q59]

1. Both Statement I and Statement II are correct

[Option ID = 1193]

2. Both Statement I and Statement II are incorrect

[Option ID = 1194]

3. Statement I is correct but Statement II is incorrect

[Option ID = 1195]

4. Statement I is incorrect but Statement II is correct

[Option ID = 1196]

60) Guttation is release of liquid water from veins of the leaf margins. It is caused by:

[Question ID = 300][Question Description = 160_33_ENM_AUG22_Q60]

1. Transpiration [Option ID = 1197]

2. High Root Pressure [Option ID = 1198]

3. High Leaf Pressure [Option ID = 1199]

4. Clogged tracheids or vessel elements [Option ID = 1200]

61) Match List I with List II

List I	List II
A. <i>Odontotermes</i> spp.	I. Semi-aquatic
B. <i>Nymphula depunctalis</i>	II. Tungro
C. <i>Nephotettix</i> spp.	III. Grassy stunt
D. <i>Nilaparvata lugens</i>	IV. Chlorpyrifos

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

[Question ID = 301][Question Description = 161_33_ENM_AUG22_Q61]

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

[Option ID = 1201]

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

[Option ID = 1202]

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

[Option ID = 1203]

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

[Option ID = 1204]

62) Match List I with List II

List I	List II
A. <i>Helicoverpa armigera</i>	I. Papilionidae
B. <i>Scirpophaga nivella</i>	II. Phycitidae
C. <i>Etiella zinckenella</i>	III. Pyralidae
D. <i>Papilio demoleus</i>	IV. Noctuidae

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

[Question ID = 302][Question Description = 162_33_ENM_AUG22_Q62]

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

[Option ID = 1205]

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

[Option ID = 1206]

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

[Option ID = 1207]

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

[Option ID = 1208]

63) Match List I with List II

List I	List II
A. <i>Pectinophora gossypiella</i>	I. Pyrrhocoridae
B. <i>Dysdercus koenigii</i>	II. Double seeds
C. <i>Phenacoccus solenopsis</i>	III. Pyralidae
D. <i>Sylepta derogata</i>	IV. Sooty mold

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

[Question ID = 303][Question Description = 163_33_ENM_AUG22_Q63]

1. A-II, B-I, C-IV, D-III [Option ID = 1209]

2. A-I, B-III, C-II, D-IV [Option ID = 1210]

3. A-III, B-I, C-II, D-IV [Option ID = 1211]

4. A-IV, B-III, C-II, D-I [Option ID = 1212]

64) Match List I with List II

List I	List II
A. <i>Aphis craccivora</i>	I. Gelechiidae
B. <i>Aproaerema modicella</i>	II. Root feeder
C. <i>Holotrichia consanguinea</i>	III. Egg parasitoid
D. <i>Trichogramma</i> spp.	IV. Alarm pheromone

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

[Question ID = 304][Question Description = 164_33_ENM_AUG22_Q64]

1. A-II, B-I, C-IV, D-III [Option ID = 1213]

2. A-III, B-I, C-IV, D-II [Option ID = 1214]

3. A-IV, B-III, C-I, D-II [Option ID = 1215]

4. A-IV, B-I, C-II, D-III [Option ID = 1216]

65) The insecticide recommended for the management of sucking insect-pests through seed treatment is:

[Question ID = 305][Question Description = 165_33_ENM_AUG22_Q65]

1. Imidacloprid

[Option ID = 1217]

2. Deltamethrin

[Option ID = 1218]

3. Fenvalerate

[Option ID = 1219]

4. Malathion

[Option ID = 1220]

66) The insect inducing gall formation in apple roots is:

[Question ID = 306][Question Description = 166_33_ENM_AUG22_Q66]

1. *Eriosoma lanigerum*

[Option ID = 1221]

2. *Quadraspidiotus perniciosus*

[Option ID = 1222]

3. *Brachycaudus helichrysi*

[Option ID = 1223]

4. *Dorystenes hugelii*

[Option ID = 1224]

67) The scientific name of Angoumois grain moth is

[Question ID = 307][Question Description = 167_33_ENM_AUG22_Q67]

1. *Corcyra cephalonica* [Option ID = 1225]

2. *Sitotroga cerealella* [Option ID = 1226]

3. *Tribolium castaneum* [Option ID = 1227]

4. *Rhyzopertha dominica* [Option ID = 1228]

68) Which one among the following is a pneumatic sprayer?

[Question ID = 308][Question Description = 168_33_ENM_AUG22_Q68]

1. Foot sprayer [Option ID = 1229]
2. Stirrup sprayer [Option ID = 1230]
3. Hand compression sprayer [Option ID = 1231]
4. Rocker sprayer [Option ID = 1232]

69) Given below are two statements

Statement I: *Bacillus thuringiensis* acts as stomach poison in insects

Statement II: *Bacillus thuringiensis* is a non-crystalliferous entomopathogenic bacteria

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

[Question ID = 309][Question Description = 169_33_ENM_AUG22_Q69]

1. Both Statement I and Statement II are correct
[Option ID = 1233]
2. Both Statement I and Statement II are incorrect
[Option ID = 1234]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1235]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1236]

70) Given below are two statements

Statement I: Mango stone or nut weevil is a polyphagous insect of fruits

Statement II: Mango stone weevil causes shedding of fruits with feeding punctures

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

[Question ID = 310][Question Description = 170_33_ENM_AUG22_Q70]

1. Both Statement I and Statement II are correct
[Option ID = 1237]
2. Both Statement I and Statement II are incorrect
[Option ID = 1238]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1239]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1240]

71) Given below are two statements

Statement I: Fumigants are used in gaseous form for killing insects

Statement II: Fumigants are liposoluble and mostly used against stored grain insects

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

[Question ID = 311][Question Description = 171_33_ENM_AUG22_Q71]

1. Both Statement I and Statement II are correct
[Option ID = 1241]
2. Both Statement I and Statement II are incorrect
[Option ID = 1242]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1243]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1244]

72) Given below are two statements

Statement I: Termites are the only hemimetabolous insects that exhibit true social behaviour

Statement II: Both workers and soldiers of termites especially in *Macrotermes* spp. are sterile

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

[Question ID = 312][Question Description = 172_33_ENM_AUG22_Q72]

- Both Statement I and Statement II are correct
[Option ID = 1245]
- Both Statement I and Statement II are incorrect
[Option ID = 1246]
- Statement I is correct, but Statement II is incorrect
[Option ID = 1247]
- Statement I is incorrect, but Statement II is correct
[Option ID = 1248]

73) Mustard as trap crop can be grown for the mangement of

- Cabbage borer, *Hellula undalis*
- Diamondback moth, *Plutella xylostella*
- Cabbage semilooper, *Plusia orichalcea*
- Cabbage flea beetle, *Phyllotreta cruciferae*

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

[Question ID = 313][Question Description = 173_33_ENM_AUG22_Q73]

- A only [Option ID = 1249]
- B only [Option ID = 1250]
- A and B only [Option ID = 1251]
- C and D only [Option ID = 1252]

74) The name Spiralling whitefly is derived due to

- Secretion of honey dew
- Presence of glossy waxy rods in nymphs
- Covering of adult body with powdery white material
- Egg laying pattern

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

[Question ID = 314][Question Description = 174_33_ENM_AUG22_Q74]

- A only [Option ID = 1253]
- B and C only [Option ID = 1254]
- C and D only [Option ID = 1255]
- D only [Option ID = 1256]

75) Which of the following causes "Dead heart symptom" in the standing maize crop?

- Army worm
- Ear worm
- Stem borer
- Cut worm

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

[Question ID = 315][Question Description = 175_33_ENM_AUG22_Q75]

- A and C only
[Option ID = 1257]
- B only
[Option ID = 1258]
- C only
[Option ID = 1259]
- B and C only

[Option ID = 1260]

76) Cucumoviruses is a:

[Question ID = 316][Question Description = 176_33_ENM_AUG22_Q76]

1. Aphid borne stylet borne virus

[Option ID = 1261]

2. Aphid borne non-stylet borne virus

[Option ID = 1262]

3. Thrips borne stylet borne virus

[Option ID = 1263]

4. Thrips borne non-stylet borne virus

[Option ID = 1264]

77) Predominant vector of leaf curl disease infesting vegetable crops is:

[Question ID = 317][Question Description = 177_33_ENM_AUG22_Q77]

1. Mites

[Option ID = 1265]

2. Whiteflies

[Option ID = 1266]

3. Aphids

[Option ID = 1267]

4. Flea beetles

[Option ID = 1268]

78) Gemini viruses are:

[Question ID = 318][Question Description = 178_33_ENM_AUG22_Q78]

1. Circulative type

[Option ID = 1269]

2. Non-circulative type

[Option ID = 1270]

3. Persistent type

[Option ID = 1271]

4. Non-persistent type

[Option ID = 1272]

79) Non persistent, semi-persistent and persistent type of transmission is common in:

[Question ID = 319][Question Description = 179_33_ENM_AUG22_Q79]

1. Aphids

[Option ID = 1273]

2. Thrips

[Option ID = 1274]

3. Flea beetles

[Option ID = 1275]

4. Grasshoppers

[Option ID = 1276]

80) Given below are two statements

Statement I: Cucumoviruses are aphid borne stylet borne virus

Statement II: Gemini viruses are circulative type

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

[Question ID = 320][Question Description = 180_33_ENM_AUG22_Q80]

1. Both Statement I and Statement II are correct [Option ID = 1277]

2. Both Statement I and Statement II are incorrect [Option ID = 1278]

3. Statement I is correct but Statement II is incorrect [Option ID = 1279]
4. Statement I is incorrect but Statement II is correct [Option ID = 1280]

81) Given below are two statements

Statement I: The terms non persistent, semi-persistent and persistent viruses were coined by Watson and Roberts

Statement II: The terms non persistent, semi-persistent and persistent viruses were coined by Watson and Crick

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

[Question ID = 321][Question Description = 181_33_ENM_AUG22_Q81]

1. Both Statement I and Statement II are correct [Option ID = 1281]
2. Both Statement I and Statement II are incorrect [Option ID = 1282]
3. Statement I is correct but Statement II is incorrect [Option ID = 1283]
4. Statement I is incorrect but Statement II is correct [Option ID = 1284]

82) Given below are two statements

Statement I: Phytoplasmas are mainly spread through Psyllids

Statement II: Phytoplasmas are mainly spread through Cicadellids

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

[Question ID = 322][Question Description = 182_33_ENM_AUG22_Q82]

1. Both Statement I and Statement II are correct
[Option ID = 1285]
2. Both Statement I and Statement II are incorrect
[Option ID = 1286]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1287]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1288]

83) Given below are two statements

Statement I: Stylet borne viruses are transmitted by *Myzus persicae*

Statement II: Stylet borne viruses are transmitted by *Aphis gossypii*

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

[Question ID = 323][Question Description = 183_33_ENM_AUG22_Q83]

1. Both Statement I and Statement II are correct
[Option ID = 1289]
2. Both Statement I and Statement II are incorrect
[Option ID = 1290]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1291]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1292]

84) Match List I with List II

List I	List II
A. Zebra chip disease of potato	I. <i>Cacopsylla pyricola</i>
B. Fire blight of orchard tree	II. <i>Bactericera trigonica</i>
C. Carrot stolbur	III. <i>Russelliana solanicola</i>
D. Potato Rugose stunting virus	IV. <i>Bactericera cockrelli</i>

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

[Question ID = 324][Question Description = 184_33_ENM_AUG22_Q84]

1. A-I, B-II, C-III, D-IV [Option ID = 1293]
2. A-IV, B-I, C-II, D-III [Option ID = 1294]
3. A-II, B-I, C-III, D-IV [Option ID = 1295]
4. A-I, B-II, C-IV, D-III [Option ID = 1296]

85) Match List I with List II

List I	List II
A. Powdery mildew of mango	I. <i>Erwinia tracheiphila</i>
B. Bacterial wilt of cucurbits	II. <i>Oidium mangiferae</i>
C. Bacterial wilt of corn	III. <i>Erwinia amylovora</i>
D. Fire blight of pear, apple	IV. <i>Pantoea stewartii</i>

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

[Question ID = 325][Question Description = 185_33_ENM_AUG22_Q85]

1. A-II, B-I, C-IV, D-III [Option ID = 1297]
2. A-I, B-IV, C-III, D-II [Option ID = 1298]
3. A-IV, B-I, C-II, D-III [Option ID = 1299]
4. A-I, B-II, C-III, D-IV [Option ID = 1300]

86) Match List I with List II

List I	List II
A. Banana bunchy top virus	I. Whitefly
B. Mung bean yellow mosaic virus	II. Mealybug
C. Banana streak virus	III. Aphid
D. Cherry mottle leaf virus	IV. Mite

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

[Question ID = 326][Question Description = 186_33_ENM_AUG22_Q86]

1. A-I, B-III, C-IV, D-II
[Option ID = 1301]
2. A-I, B-IV, C-III, D-II
[Option ID = 1302]
3. A-II, B-I, C-IV, D-III
[Option ID = 1303]
4. A-III, B-I, C-II, D-IV
[Option ID = 1304]

87) Match List I with List II

List I	List II
A. Coconut lethal yellowing	I. Psyllid
B. Cotton wilt	II. Whitefly
C. Citrus canker	III. Leafhopper
D. Bitter gourd yellow mosaic	IV. Grasshopper

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

[Question ID = 327][Question Description = 187_33_ENM_AUG22_Q87]

1. A-III, B-IV, C-II, D-I [Option ID = 1305]
2. A-I, B-III, C-IV, D-II [Option ID = 1306]
3. A-III, B-IV, C-I, D-II [Option ID = 1307]
4. A-II, B-I, C-III, D-IV [Option ID = 1308]

88) The genome size of baculoviruses ranges from

- A. 20-30 kbp
- B. 40-50 kbp
- C. 60-70 kbp
- D. 80-180 kbp

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

[Question ID = 328][Question Description = 188_33_ENM_AUG22_Q88]

1. A and D only [Option ID = 1309]
2. D only [Option ID = 1310]
3. C and B only [Option ID = 1311]
4. A and C only [Option ID = 1312]

89) Viruses, not transmitted by the plant hoppers are/is:

- A. Rhabdo viruses
- B. Tenui viruses
- C. Neo viruses
- D. Begmo viruses

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

[Question ID = 329][Question Description = 189_33_ENM_AUG22_Q89]

1. A and C only

[Option ID = 1313]

2. B and C only

[Option ID = 1314]

3. A and B only

[Option ID = 1315]

4. D only

[Option ID = 1316]

90) Vector of little leaf of brinjal is

- A. Leafhopper
- B. Whitefly
- C. Plant hopper
- D. Mealy bugs

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

[Question ID = 330][Question Description = 190_33_ENM_AUG22_Q90]

1. A only [Option ID = 1317]

2. A and B only [Option ID = 1318]

3. A and C only [Option ID = 1319]

4. B and C only [Option ID = 1320]

91) In which of the following nematodes, dorsal oesophageal gland opens in median bulb of oesophagus?

- A. *Hoplolaimus*
- B. *Pratylenchus*
- C. *Aphelenchus*
- D. *Aphelenchoides*

Choose the *correct* answer from the options given below

[Question ID = 331][Question Description = 191_33_ENM_AUG22_Q91]

1. A only [Option ID = 1321]

2. B only [Option ID = 1322]

3. A and B only [Option ID = 1323]

4. C and D only [Option ID = 1324]

92) Which of the following nematode induces Syncytium cells?

- A. *Meloidogyne incognita*
- B. *Tylenchulus semipenetrans*
- C. *Heterodera avenae*
- D. *Rotylenchulus reniformis*

Choose the *correct* answer from the options given below

[Question ID = 332][Question Description = 192_33_ENM_AUG22_Q92]

1. A only [Option ID = 1325]

2. B only [Option ID = 1326]

3. A and B only [Option ID = 1327]

4. C and D only [Option ID = 1328]

93) The first record of plant parasitic nematode was in the year?

[Question ID = 333][Question Description = 193_33_ENM_AUG22_Q93]

1. 1746 [Option ID = 1329]
2. 1743 [Option ID = 1330]
3. 1762 [Option ID = 1331]
4. 1747 [Option ID = 1332]

94) The sexual dimorphism occurs in which nematode?

[Question ID = 334][Question Description = 194_33_ENM_AUG22_Q94]

1. *Rotylenchus* [Option ID = 1333]
2. *Xiphinema* [Option ID = 1334]
3. *Anguina* [Option ID = 1335]
4. *Hoplolaimus* [Option ID = 1336]

95) Given below are two statements

Statement I: Crop rotation is the most effective mean for control of *Heterodera avenae*

Statement II: Crop rotation is not an effective mean for control of *Heterodera avenae*

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

[Question ID = 335][Question Description = 195_33_ENM_AUG22_Q95]

1. Both Statement I and Statement II are true [Option ID = 1337]
2. Both Statement I and Statement II are false [Option ID = 1338]
3. Statement I is true but Statement II is false [Option ID = 1339]
4. Statement I is false but Statement II is true [Option ID = 1340]

96) Which one of the following is NOT a carbamate nematicide?

[Question ID = 336][Question Description = 196_33_ENM_AUG22_Q96]

1. Diazinon [Option ID = 1341]
2. Aldicarb [Option ID = 1342]
3. Carbofuran [Option ID = 1343]
4. Oxamyl [Option ID = 1344]

97) Given below are two statements

Statement I: Fallowing causes nematode death due to starvation and desiccation

Statement II: Fallowing is very effective in dry and hot areas

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

[Question ID = 337][Question Description = 197_33_ENM_AUG22_Q97]

1. Both Statement I and Statement II are true [Option ID = 1345]
2. Both Statement I and Statement II are false [Option ID = 1346]
3. Statement I is true but Statement II is false [Option ID = 1347]
4. Statement I is false but Statement II is true [Option ID = 1348]

98) Match List I with List II

List I	List II
A. <i>Pratylenchus</i>	I. Root lesions
B. <i>Trichodorus</i>	II. Setae
C. <i>Anguina tritici</i>	III. Ectoparasite
D. <i>Atylenchus</i>	IV. Seed-borne

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

[Question ID = 338][Question Description = 198_33_ENM_AUG22_Q98]

1. A-III, B-I, C-II, D-IV [Option ID = 1349]
2. A-I, B-III, C-IV, D-II [Option ID = 1350]
3. A-II, B-IV, C-III, D-I [Option ID = 1351]
4. A-IV, B-II, C-I, D-III [Option ID = 1352]

99) In which of the following nematode, phasmids are absent?

[Question ID = 339][Question Description = 199_33_ENM_AUG22_Q99]

1. *Hoplolaimus* [Option ID = 1353]
2. *Criconema* [Option ID = 1354]
3. *Tylenchorhynchus* [Option ID = 1355]
4. *Rotylenchus* [Option ID = 1356]

100) Which one is infective stage of *Rotylenchulus reniformis*?

- A. Preadult female
- B. 2nd stage juvenile
- C. 3rd stage juvenile
- D. Adult males

Choose the *correct* answer from the options given below

[Question ID = 340][Question Description = 200_33_ENM_AUG22_Q100]

1. A only [Option ID = 1357]
2. B only [Option ID = 1358]
3. A and B only [Option ID = 1359]
4. C and D only [Option ID = 1360]

101) Match the duration of given strains in lac crop

List I	List II
A. <i>Aghani</i>	I. October - July
B. <i>Jethwi</i>	II. June - November
C. <i>Katki</i>	III. January - July
D. <i>Baisakhi</i>	IV. June - February

Choose the correct answer from the options given below:

[Question ID = 341][Question Description = 201_33_ENM_AUG22_Q101]

1. A-IV, B- III, C-I, D-II [Option ID = 1361]
2. A- II, B-I, C-IV, D-III [Option ID = 1362]
3. A-IV, B-II, C-III, D-I [Option ID = 1363]
4. A-IV, B-III, C-II, D-I [Option ID = 1364]

102) Which acid is present in high quantities in most of the insect galls produced in plants ?[Question ID = 342][Question Description = 202_33_ENM_AUG22_Q102]

1. Oxalic acid [Option ID = 1365]
2. Citric acid [Option ID = 1366]
3. Tannic acid [Option ID = 1367]
4. Tartaric acid [Option ID = 1368]

103) Which one of the following is a pest of Noni, *Morinda citrifolia*?

[Question ID = 343][Question Description = 203_33_ENM_AUG22_Q103]

1. *Achaea janata*
[Option ID = 1369]
2. *Spoladea recurvalis*
[Option ID = 1370]
3. *Dichocrocis punctiferalis*
[Option ID = 1371]
4. *Marasmia patnalis*
[Option ID = 1372]

104) Which one of the following is an acaricide?

[Question ID = 344][Question Description = 204_33_ENM_AUG22_Q104]

1. Brodifacoum [Option ID = 1373]
2. Acequinocyl [Option ID = 1374]
3. Fluensulfone [Option ID = 1375]
4. Pyrazosulfuron [Option ID = 1376]

105) Match the mode of action of the given insecticides

List I	List II
A. Pyriproxifen	I. Sodium channel blocker
B. Chlorantraniliprole	II. Inhibitor of acetylcholinesterase
C. Indoxacarb	III. JH mimic
D. Propoxur	IV. Calcium channel activator

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

[Question ID = 345][Question Description = 205_33_ENM_AUG22_Q105]

1. A-III, B- IV, C-I, D-II [Option ID = 1377]
2. A- II, B-I, C-IV, D-III [Option ID = 1378]
3. A-IV, B-II, C-III, D-I [Option ID = 1379]
4. A-II, B-IV, C-I, D-III [Option ID = 1380]

106) Given below are two statements

Statement I: PCR based genotyping techniques are useful to detect susceptible (SS), Resistant (RR) and heterozygous (RS) genotypes which are necessary for effective resistance management

Statement II: Use of genetically engineered crops does not delay the development of resistance.

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

[Question ID = 346][Question Description = 206_33_ENM_AUG22_Q106]

1. Both Statement I and Statement II are correct
[Option ID = 1381]
2. Both Statement I and Statement II are incorrect
[Option ID = 1382]
3. Statement I is correct, but Statement II is incorrect
[Option ID = 1383]
4. Statement I is incorrect, but Statement II is correct
[Option ID = 1384]

107) The pest which can be managed by minimizing field gleanings is?

[Question ID = 347][Question Description = 207_33_ENM_AUG22_Q107]

1. Pepper Pollu beetle
[Option ID = 1385]
2. Coffee berry borer
[Option ID = 1386]
3. Coconut eriophyid mite
[Option ID = 1387]
4. Cardamom capsule borer
[Option ID = 1388]

108) In which one of the following transgenic crop Pot PI-II (Potato proteinase inhibitor -II) has been employed for insect control ?

[Question ID = 348][Question Description = 208_33_ENM_AUG22_Q108]

1. Rice, against stem borer, *Scirpophaga incertulas* [Option ID = 1389]
2. Maize, against stem borer, *Chilo partellus* [Option ID = 1390]
3. Tomato, against fruit borer, *Helicoverpa armigera* [Option ID = 1391]
4. Sugarcane, against internode borer, *Chilo sacchariphagus indicus* [Option ID = 1392]

109) Match List I with List II

List I	List II
A. DMRT	I. Provides data management, data visualization, predictive analysis and statistical analysis
B. Chi Square test	II. Provides significance levels for the difference between any pair of means
C. SAS package	III. Provides more applications to analyse data relating to social sciences

D. SPSS package	IV. Provides the difference that exists between observed and expected values
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Choose the **correct** answer from the options given below:

[Question ID = 349][Question Description = 209_33_ENM_AUG22_Q109]

1. A-III, B- IV, C-I, D-II [Option ID = 1393]
2. A-IV, B-II, C-III, D-I [Option ID = 1394]
3. A- II, B-I, C-IV, D-III [Option ID = 1395]
4. A-II, B-IV, C-I, D-III [Option ID = 1396]

110) The damage symptom of blister spots toward leaf tip in rice is caused by

[Question ID = 350][Question Description = 210_33_ENM_AUG22_Q110]

1. White rice leaf hopper, *Cofana spectra* [Option ID = 1397]
2. Rice hispa, *Dicladispa armigera* [Option ID = 1398]
3. Rice striped bug, *Tetroda histeroidea* [Option ID = 1399]
4. Whorl maggot, *Hydrellia philippina* [Option ID = 1400]

111) Match List I with List II

List I	List II
A. <i>Rhyzopertha dominica</i>	I. Phycitidae
B. <i>Sitotroga cerealella</i>	II. Tenebrionidae
C. <i>Tribolium castaneum</i>	III. Bostrychidae
D. <i>Plodia interpunctella</i>	IV. Gelechiidae

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

[Question ID = 351][Question Description = 211_33_ENM_AUG22_Q111]

1. A-I, B-II, C-III, D-IV [Option ID = 1401]
2. A-II, B-I, C-IV, D-III [Option ID = 1402]
3. A-II, B-I, C-III, D-IV [Option ID = 1403]
4. A-III, B-IV, C-II, D-I [Option ID = 1404]

112) Match List I with List II

List I	List II
A. Abate	I. Mosquito larvae
B. Bromadiolone	II. Mosquito adults
C. Sulphur	III. House mice
D. Allethrin	IV. Dust mites

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

[Question ID = 352][Question Description = 212_33_ENM_AUG22_Q112]

1. A-I, B-III, C-IV, D-II [Option ID = 1405]
2. A-II, B-I, C-IV, D-III [Option ID = 1406]
3. A-II, B-I, C-III, D-IV [Option ID = 1407]
4. A-I, B-II, C-IV, D-III [Option ID = 1408]

113) Match List I with List II

List I	List II
A. Wingspan of Hercules moth	I. up to 12 inches
B. Wingspan of Atlas moth	II. up to 2 inches
C. Wingspan of mulberry silk worm	III. up to 6 inches
D. Wingspan of Tasar silk worm	IV. up to 14 inches

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

[Question ID = 353][Question Description = 213_33_ENM_AUG22_Q113]

1. A-I, B-III, C-IV, D-II [Option ID = 1409]
2. A-II, B-I, C-IV, D-III [Option ID = 1410]
3. A-IV, B-I, C-II, D-III [Option ID = 1411]
4. A-I, B-II, C-IV, D-III [Option ID = 1412]

114) In which of the following insects, the adult and grub feed on the grain by making a small hole?

[Question ID = 354][Question Description = 214_33_ENM_AUG22_Q114]

1. Khapra beetle [Option ID = 1413]
2. Pulse beetle [Option ID = 1414]

3. Rice weevil [Option ID = 1415]
4. Lesser grain borer [Option ID = 1416]

115) Given below are two statements

Statement I: *Thrips tabaci* infest onion plants in field as well as bulbs during storage

Statement II: Thrips feeding and oviposition cause laceration of leaves

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

[Question ID = 355][Question Description = 215_33_ENM_AUG22_Q115]

1. Both Statement I and Statement II are true [Option ID = 1417]
2. Both Statement I and Statement II are false [Option ID = 1418]
3. Statement I is true but Statement II is false [Option ID = 1419]
4. Statement I is false but Statement II is true [Option ID = 1420]

116) Match List I with List II

List I	List II
A. Green onion bulb	I. Tukra
B. Tamarind	II. Beetle
C. Mulberry	III. Nosemosis
D. Honey bee	IV. Scallions

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

[Question ID = 356][Question Description = 216_33_ENM_AUG22_Q116]

1. A-I, B-III, C-IV, D-II [Option ID = 1421]
2. A-II, B-I, C-IV, D-III [Option ID = 1422]
3. A-IV, B-II, C-I, D-III [Option ID = 1423]
4. A-I, B-II, C-IV, D-III [Option ID = 1424]

117) *Morus alba* is the predominant food plant of:

[Question ID = 357][Question Description = 217_33_ENM_AUG22_Q117]

1. *Bombyx mori* [Option ID = 1425]
2. *Antheraea mylitta* [Option ID = 1426]
3. *Antheraea royeli* [Option ID = 1427]
4. *Antheraea pernyi* [Option ID = 1428]

118) Given below are two statements

Statement I: Morin is present in *Morus alba* leaves

Statement II: Morin is absent in *Moringa oleifera* leaves

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

[Question ID = 358][Question Description = 218_33_ENM_AUG22_Q118]

1. Both Statement I and Statement II are true [Option ID = 1429]
2. Both Statement I and Statement II are false [Option ID = 1430]
3. Statement I is true but Statement II is false [Option ID = 1431]
4. Statement I is false but Statement II is true [Option ID = 1432]

119) The term “Grainage” in sericulture refers to:

- A. Disease free and quality egg production
- B. Disease free and quality cocoon production
- C. Disease free silk worm rearing
- D. Safe storage of host plant seeds

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

[Question ID = 359][Question Description = 219_33_ENM_AUG22_Q119]

1. A and B only
[Option ID = 1433]
2. B and C only
[Option ID = 1434]
3. A, B and C only

[Option ID = 1435]

4. D only

[Option ID = 1436]

120) The Uzy fly in silk worm is a

A. Larval parasitoid

B. Larval-pupal parasitoid

C. Prepupal-Pupal parasitoid

D. Adult parasitoid

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

[Question ID = 360][Question Description = 220_33_ENM_AUG22_Q120]

1. A only [Option ID = 1437]

2. B only [Option ID = 1438]

3. C only [Option ID = 1439]

4. C and D only [Option ID = 1440]