

1

Question ID : 2121

Topic Name : PLANT SCIENCES

The Hormone that can promote seed germination in crops such as lettuce and tobacco

- (1) Auxin
- (2) Cytokinin
- (3) Gibberellins
- (4) Ethylene

Answer Given By Candidate is : 2

2

Question ID : 2122

Topic Name : PLANT SCIENCES

Sugarcane is mainly propagated by _____.

- (1) Sucker
- (2) Seed stolen
- (3) Setts
- (4) Stock

Answer Given By Candidate is : 3

3

Question ID : 2123

Topic Name : PLANT SCIENCES

- (1) Sporogenesis
- (2) Fertilization
- (3) Gametogenesis
- (4) Mega gametogenesis

Answer Given By Candidate is : 3

5

Question ID : 2125

Topic Name : PLANT SCIENCES

The seeds produced from foundation seed, whose genetic and physical purity is certified by a certification agency and used for commercial crop production are known as :

- (1) Foundation seed
- (2) Breeder seed
- (3) Certified seed
- (4) Nucleus seed

Answer Given By Candidate is : 3

6

Question ID : 2126

Topic Name : PLANT SCIENCES

When staminate and pistillate flower occurs in the same plant, it is called as :

- (1) Dioecious
- (2) Monoecious
- (3) Protogynous
- (4) Protandrous

Answer Given By Candidate is : 2

7

Question ID : 2127

Topic Name : PLANT SCIENCES

how many chromosomes ?

- (1) 6
- (2) 4
- (3) 7
- (4) 5

NOT ANSWERED

9

Question ID : 2129

Topic Name : PLANT SCIENCES

In the early stages of embryonic development, the embryonic tissues are composed of these cells progressively differentiate into the adult tissues and organs, and so on. This is known as _____.

- (1) Preformation theory
- (2) Epigenesis
- (3) Inheritance of acquired characters
- (4) Germplasm theory

Answer Given By Candidate is : 2

10

Question ID : 2130

Topic Name : PLANT SCIENCES

In Mendel's experiment, the pea genotypes with 'Round' and 'Wrinkle' seeds were _____.

- (1) Heterozygous and Heterogenous
- (2) Homozygous and Heterogenous
- (3) Heterozygous and Homogenous
- (4) Homozygous and Homogenous

Answer Given By Candidate is : 3

11

In plants, the rate of transpiration is usually maximum in which part of the day ?

- (1) Early morning
- (2) Late evening
- (3) Little before noon
- (4) Late afternoon

Answer Given By Candidate is : 1

13

Question ID : 2133

Topic Name : PLANT SCIENCES

Performance superiority of an F_1 over the better parent used in a cross is referred to

- (1) Relative heterosis
- (2) Heterobeltiosis
- (3) Super heterosis
- (4) Standard heterosis

Answer Given By Candidate is : 2

14

Question ID : 2134

Topic Name : PLANT SCIENCES

"Kufri Sindhuri" is a popular variety of :

- (1) Tomato
- (2) Potato
- (3) Brinjal
- (4) Chilli

Answer Given By Candidate is : 2

15

Question ID : 2135

Topic Name : PLANT SCIENCES

- B. DNA has a de-oxy Ribose sugar molecule.
- C. RNA has Pyrimidine bases except Uracil.
- D. When N-base join to ribose sugar, one H_2O molecule is released.
- E. DNA is negatively charged due to the phosphatic group.

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

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

Answer Given By Candidate is : 4

17

Question ID : 2137

Topic Name : PLANT SCIENCES

Select the **correct** statement about linkage and gene mapping.

- A. Genetic distance between a pair of gene is calculated by estimating the frequency (RF) between them.
- B. Recombination frequencies never goes beyond 50%.
- C. Haldane's mapping function assumes lack of interference.
- D. Genes located on two different chromosomes are said to be tightly linked in recombination.
- E. Higher the 'Coefficient of Coincidence', lower is the 'Coefficient of Interference'.

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

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

NOT ANSWERED

18

Question ID : 2138

Topic Name : PLANT SCIENCES

19

Question ID : 2139

Topic Name : PLANT SCIENCES

Identify the “**correct**” statement about Mendel’s experiment on Pea.

- A. Mendel purified the collected lines of Pea by repeated selfing and then used experiment.
- B. Mendel used lines contrasting for the target trait.
- C. “Blending Inheritance” was the basis of his experiment.
- D. Mendel advanced the generations systematically and arranged the data properly.
- E. Mendel used statistics and mathematics to analyze the data of his experiment.

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

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

Answer Given By Candidate is : 3

20

Question ID : 2140

Topic Name : PLANT SCIENCES

Identify the **correct** statements about prokaryotic cells.

- A. The region containing chromosome is not surrounded by a membrane.
- B. Generally, DNA is naked and not complexed with histones.
- C. All ribosomes are free in the cytoplasm.
- D. Ribosomes are of 80 S size; they are made up of 60 S and 36 S sub-units.
- E. Nucleolus is absent.

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

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

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

Answer Given By Candidate is : 2

22

Question ID : 2142

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I

- A. Skeletal soils
- B. Shallow Black soils
- C. Peaty and saline peaty soils
- D. Coastal sands soils

List - II

- I. Madhya Pradesh
- II. Orissa
- III. Maharashtra
- IV. Kerala

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

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

Answer Given By Candidate is : 2

23

Question ID : 2143

Topic Name : PLANT SCIENCES

24

Question ID : 2144

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I

- A. Foundation seed
- B. Nucleus seed
- C. Breeder seed
- D. Certified seed

List - II

- I. Progeny of Foundation seed
- II. Progeny of Nucleus seed
- III. Progeny of Breeder seed
- IV. Initial seed of Individual plants

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

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

Answer Given By Candidate is : 4

25

Question ID : 2145

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I

- A. Pentose Sugar + N-base
- B. $\text{DNA} \rightleftharpoons \text{RNA} \rightarrow \text{Protein}$
- C. Adenine, Guanine
- D. $\text{DNA} \rightarrow \text{mRNA}$

List - II

- I. Purine bases
- II. Transcription
- III. Nucleoside
- IV. Central Dogma

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

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

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

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

27

Question ID : 2147

Topic Name : PLANT SCIENCES

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

List - I	List - II
(Term)	(Who Coined)
A. Mitosis	I. Wilhelm Johannsen
B. Nucleic acid	II. W. Flemming
C. Genotype	III. W. Waldeyer
D. Chromosome	IV. Altman

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

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

NOT ANSWERED

28

Question ID : 2148

Topic Name : PLANT SCIENCES

29

Question ID : 2149

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I (ICAR Institute)	List - II (H.Q. Location)
A. Central Rice Research Institute	I. Hyderabad
B. Indian Institute of Maize Research	II. Indore
C. National Soybean Research Institute	III. Cuttack
D. Central Research Institute for Dryland Agriculture	IV. Ludhiana

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

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

Answer Given By Candidate is : 4

30

Question ID : 2150

Topic Name : PLANT SCIENCES

31

Question ID : 2151

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I
(Agricultural Revolution)

- A. Green revolution
- B. Blue revolution
- C. Rainbow revolution
- D. Yellow revolution

List - II
(Target area)

- I. Increased production of Horticulture
- II. Yield increase in major cereal crops
- III. Enhanced edible oil seed production
- IV. Increase in Fish production

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

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

Answer Given By Candidate is : 2

32

Question ID : 2152

Topic Name : PLANT SCIENCES

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

Assertion A : In wheat, crown root initiation stage is most critical stage for its moisture stress conditions.

Reason R : The crown zone is a transition zone between root and shoot.

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

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

- (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 : 1

34

Question ID : 2154

Topic Name : PLANT SCIENCES

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

Assertion A : The C_4 mode of photosynthesis requires more ATPs than the C_3 mode of $1CO_2$ molecule, still C_4 plants are considered as more photosynthetically than the C_3 plant.

Reason R : Higher photosynthetic efficiency of the C_4 plant is due to the absence (presence) of photorespiration in the C_4 plants.

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

35

Question ID : 2155

Topic Name : PLANT SCIENCES

36

Question ID : 2156

Topic Name : PLANT SCIENCES

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

Assertion A : The vigour and fertility of several plant species like alfalfa, carrot, et severely after continuous selfing.

Reason R : The reduction or loss in vigour and fertility occurs due to increase in of the lethal alleles which is also called as inbreeding depression.

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 : 1

37

Question ID : 2157

Topic Name : PLANT SCIENCES

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

Assertion A : A pH scale was introduced by S. Sorensen in 1909 for expressing alkalinity of a solution.

Reason R : The pH is a negative logarithm of the Hydrogen ion concentration solution, and it indicates the acidity or alkalinity of a solution.

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

- (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 : 1

39

Question ID : 2159

Topic Name : PLANT SCIENCES

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

Assertion A : Unlike Prokaryotes, the regulation of gene expression is far more complex in Eukaryotes.

Reason R : The eukaryotic DNA is mostly coiled and have nucleosome structure. It requires RNA processing before translation, which add complexities.

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 : 1

40

Question ID : 2160

Topic Name : PLANT SCIENCES

41

Question ID : 2161

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : In the '*lac*' 'operon', the mRNA synthesis is primarily controlled protein.

Statement II : In case of constitutive gene, continuous transcription occurs.

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

42

Question ID : 2162

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Heterosis and Luxuriance, both refers to the increase in vigour, size etc. of an inter-specific hybrid.

Statement II : Heterosis is typically accompanied by increased fertility, while generally associated with poor fertility or even sterility.

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 : 3

(4) B and D only

Answer Given By Candidate is : 3

44

Question ID : 2164

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Truthfully labelled seeds are produced under the strict supervision of the government and maintain a higher standard of seed quality.

Statement II : Genetic purity is not guaranteed in case of truthfully labelled seeds.

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 : 3

45

Question ID : 2165

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Tetrazolium test involves enzymatic treatment followed by germination of the seeds.

Statement II : Tetrazolium test does not differentiate between dormant and non-dormant seeds.

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

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

Answer Given By Candidate is : 3

47

Question ID : 2167

Topic Name : PLANT SCIENCES

Arrange the following crops in ascending order (low to high) of their isolation distance for foundation seed production.

- A. Groundnut
- B. Cauliflower
- C. Cotton (varieties)
- D. Castor
- E. Sesamum

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

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

NOT ANSWERED

48

Question ID : 2168

Topic Name : PLANT SCIENCES

49

Question ID : 2169

Topic Name : PLANT SCIENCES

Arrange the following components of a plant cell in order of sequence of existence from the inside of the cell to the outside.

- A. Primary Cell Wall
- B. Nuclear Envelope
- C. Cytoplasm
- D. Plasmalemma
- E. Nucleolus

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

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

Answer Given By Candidate is : 1

50

Question ID : 2170

Topic Name : PLANT SCIENCES

Arrange the following events in descending (Latest to the Oldest) order of their discovery.

- A. J.D. Watson and F.H.C Crick published DNA double helix structure.
- B. Wilhelm Johannsen coined the term 'Gene'.
- C. O. Avery, C. Macleod and M. McCarty proved that DNA is the genetic material.
- D. Rediscovery of Mendel's laws.
- E. William Bateson coined the term 'Genetics'

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

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

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

Answer Given By Candidate is : 3

52

Question ID : 2172

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Aerotolerant anaerobe can **not** grow in the presence of oxygen. T
oxygen for respiration.

Statement II : Obligate anaerobe are killed by exposure to oxygen.

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

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

Answer Given By Candidate is : 2

53

Question ID : 2173

Topic Name : PLANT SCIENCES

Which of the following are found in the cell wall of Plants ?

- A. Chitin
- B. Cellulose
- C. Hemicellulose
- D. Peptidoglycan
- E. Lignin

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

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

Answer Given By Candidate is : 2

55

Question ID : 2175

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I
(Bacterial Shape)

- A. Vibroid
- B. Spirilla
- C. Diplococci
- D. Pleomorphic

List - II
(Description)

- I. Variable shape
- II. Cocci in pair
- III. Rigid spiral shape
- IV. Comma shape

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

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

Answer Given By Candidate is : 1

57

Question ID : 2177

Topic Name : PLANT SCIENCES

Which of the following bacteria is involved in the dissimilatory reduction of nitrate soil ?

- (1) *Pseudomonas*
- (2) *Nitrosomonas*
- (3) *Azotobacter*
- (4) *Nitrosobacter*

Answer Given By Candidate is : 1

58

Question ID : 2178

Topic Name : PLANT SCIENCES

Which of the following heterotrophic bacteria is **not** a free living nitrogen fixer ?

- (1) *Azotobacter*
- (2) *Clostridium*
- (3) *Rhizobium*
- (4) *Klebsiella*

Answer Given By Candidate is : 4

59

Question ID : 2179

Topic Name : PLANT SCIENCES

60

Question ID : 2180

Topic Name : PLANT SCIENCES

Bacterial genera **not** able to form endospores is :

- (1) *Sporosarcina*
- (2) *Bacillus*
- (3) *Clostridium*
- (4) *Rhizobium*

Answer Given By Candidate is : 1

61

Question ID : 2181

Topic Name : PLANT SCIENCES

Hormone responsible for fruit ripening is _____.

- (1) Auxin
- (2) Cytokinin
- (3) Ethyl chloride
- (4) Ethylene

Answer Given By Candidate is : 4

62

Question ID : 2182

Topic Name : PLANT SCIENCES

Among of the following milk products, which is not a traditional milk product ?

- (1) Ghee
- (2) Cheese
- (3) Curd
- (4) Khoa

- (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 : 1

64

Question ID : 2184

Topic Name : PLANT SCIENCES

Transformation was first observed in 1928, in *Streptococcus pneumoniae* by _____

- (1) Avery and coworkers
(2) Frederick Griffith
(3) N. Zinder and J. Lederberg
(4) J. Lederberg and E. Tatum

NOT ANSWERED

65

Question ID : 2185

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I

- A. Hershey - Chase, 1952
B. Monod and Jacob, 1961
C. Selman A. Waksman 1952
D. Alexander Fleming, 1926

List - II

Experiment/Discovery demonstration

- I. The operon in *E. Coli*
II. Transduction
III. Discovery of streptomycin
IV. Discovery of penicillin

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

67

Question ID : 2187

Topic Name : PLANT SCIENCES

Which of the following are photosynthetic Diazotrophs ?

- A. *Azotobacter*
- B. *Rhizobium*
- C. *Anabaena*
- D. *Spirulina*
- E. *Nostoc*

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

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

NOT ANSWERED

68

Question ID : 2188

Topic Name : PLANT SCIENCES

Identify the ectomycorrhizal fungi :

- A. *Acaulospora*
- B. *Pisolithus*
- C. *Amanita*
- D. *Glomus*
- E. *Gigaspora*

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

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

NOT ANSWERED

70

Question ID : 2190

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Lactic acid bacterial cultures are used as inoculum for commercial preparation.

Statement II : Only mesophilic bacteria are used as inoculum for commercial Da

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 : 3

71

Question ID : 2191

Topic Name : PLANT SCIENCES

Properties of genetic code include :

- A. Triplet nature
- B. Degeneracy
- C. Overlapping
- D. Non-universal
- E. Non-ambiguous

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

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

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

Answer Given By Candidate is : 1

73

Question ID : 2193

Topic Name : PLANT SCIENCES

Controlled heating at temperature well below boiling is called _____.

- (1) Pasteurization
- (2) Tyndallization
- (3) Incineration
- (4) Sterilization

Answer Given By Candidate is : 1

74

Question ID : 2194

Topic Name : PLANT SCIENCES

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

Assertion A : Many heat - sensitive items such as Petri dishes, medical equipmen with ethylene oxide gas.

Reason R : Ethylene oxide is a strong alkylating agent that kills microorganis with their DNA and proteins.

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

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

Answer Given By Candidate is : 1

(4) **A** is not correct but **R** is correct

Answer Given By Candidate is : 1

76

Question ID : 2196

Topic Name : PLANT SCIENCES

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

Assertion A : Assimilatory nitrate reduction is different from dissimilatory nitrate reduction.

Reason R : In Assimilatory nitrate reduction, nitrate is reduced to ammonia and incorporated into the biomass.

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

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

NOT ANSWERED

77

Question ID : 2197

Topic Name : PLANT SCIENCES

Which of the following is stop codon ?

- A. AUG
- B. UGA
- C. UAG
- D. UAA

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

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

79

Question ID : 2199

Topic Name : PLANT SCIENCES

The common or bread wheat (*Triticum aestivum*) is an _____.

- (1) Allo-hexaploid
- (2) Allo-tetraploid
- (3) Auto-hexaploid
- (4) Auto-tetraploid

Answer Given By Candidate is : 1

80

Question ID : 2200

Topic Name : PLANT SCIENCES

The _____ nutrient is an essential constituent of protein.

- (1) Phosphorus
- (2) Calcium
- (3) Nitrogen
- (4) Magnesium

Answer Given By Candidate is : 1

81

Question ID : 2201

Topic Name : PLANT SCIENCES

82

Question ID : 2202

Topic Name : PLANT SCIENCES

Identify nitrite oxidizing bacteria :

- A. *Nitrosococcus*
- B. *Nitrobacter*
- C. *Nitrosomonas*
- D. *Nitrococcus*
- E. *Rhizobium*

Choose the correct answer from the options given below :

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

NOT ANSWERED

83

Question ID : 2203

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I	List - II
Taxon	Example
A. Mucoromycota	I. <i>Aspergillus</i>
B. Ascomycota	II. <i>Agaricus</i>
C. Basidiomycota	III. <i>Mucor</i>
D. Glomeromycota	IV. <i>Acaulospora</i>

Choose the correct answer from the options given below :

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

85

Question ID : 2205

Topic Name : PLANT SCIENCES

The differentiated form of *Rhizobium* that fixes nitrogen inside the nodule :

- (1) Bacteroid
- (2) Bacterium
- (3) Bacteriocin
- (4) Bacitracin

Answer Given By Candidate is : 2

86

Question ID : 2206

Topic Name : PLANT SCIENCES

In which crop, aflatoxins is a major problem :

- (1) Rice
- (2) Tomato
- (3) Chick pea
- (4) Groundnut

Answer Given By Candidate is : 3

87

Question ID : 2207

Topic Name : PLANT SCIENCES

IIWBR is located at _____.

- (1) New Delhi
- (2) Karnal
- (3) Ludhiana
- (4) Varanasi

NOT ANSWERED

Which of the following genera do not cause powdery mildew ?

- (1) *Erysiphe*
- (2) *Podosphaera*
- (3) *Blumeria*
- (4) *Alternaria*

Answer Given By Candidate is : 3

90

Question ID : 2210

Topic Name : PLANT SCIENCES

The sterility mosaic disease of arhar is transmitted by _____.

- (1) *Bemisia tabaci*
- (2) *Aceria cajani*
- (3) *Pentalonia nigronervosa*
- (4) *Nilaparvata lugens*

NOT ANSWERED

91

Question ID : 2211

Topic Name : PLANT SCIENCES

Ear cockle disease is caused by _____.

- (1) *Globodora*
- (2) *Heterodera*
- (3) *Anguina*
- (4) *Trichodorus*

NOT ANSWERED

92

Question ID : 2212

- (1) *Puccinia striiformis*
- (2) *Pythium apdanidermatum*
- (3) *Phytophthora infestans*
- (4) *Fusarium udum*

NOT ANSWERED

94

Question ID : 2214

Topic Name : PLANT SCIENCES

Who has started the Indian Phytopathological Society in India ?

- (1) KC Mehta
- (2) MK Patel
- (3) R. Prasada
- (4) B.B Mundkur

Answer Given By Candidate is : 4

95

Question ID : 2215

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Bacteria are prokaryotic organism.

Statement II : *Xanthomonas* and *Ralstonia* are important plant pathogenic bacteria causing plant diseases.

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 : 1

97

Question ID : 2217

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Propiconazole fungicides are effective against wheat rusts.

Statement II : Wheat Rust fungi are generally obligate in nature.

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

98

Question ID : 2218

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Viroids are large, low molecular weight naked strands of RNA.

Statement II : Potato leaf curl disease is caused by viroids.

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 : 1

99

Question ID : 2219

100

Question ID : 2220

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Soil borne pathogens are difficult to manage.

Statement II : Host resistance is limited against soil-borne pathogens.

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

101

Question ID : 2221

Topic Name : PLANT SCIENCES

Given below are two statements :

Statement I : Sulphur fungicides are very effective to manage the powdery mildew.

Statement II : Metalaxyl fungicides are used against downy mildew diseases.

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 : 1

102

Question ID : 2222

Topic Name : PLANT SCIENCES

Identify the *Puccinia* fungus spores.

- A. Pycniospores
- B. Uredospores
- C. Ascospores
- D. Oospores
- E. Chlamydospores

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

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

NOT ANSWERED

104

Identify the correct statements.

- A. Wheat rust is heterocious in nature
- B. Wheat rust is spread through wind
- C. Black rust needs alternate host to complete their life cycle
- D. Wheat rust is seed borne in nature
- E. Wheat rust has not been reported in India

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

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

Answer Given By Candidate is : 1

- (3) C, D Only
(4) A, E Only

Answer Given By Candidate is : 4

106

Question ID : 2226

Topic Name : PLANT SCIENCES

Choose the correct plant disease management principles :

- A. Exclusion of the pathogen
- B. Avoidance of the pathogen
- C. Eradication of the pathogen
- D. Disease assessment of the pathogen
- E. Mutation of the pathogens

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

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

Answer Given By Candidate is : 4

107

Question ID : 2227

Topic Name : PLANT SCIENCES

108

Question ID : 2228

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I	List - II
A. Blight	I. <i>Phytoplasma</i>
B. Wilt	II. <i>Phytophthora</i>
C. Mosaic	III. <i>Fusarium</i>
D. Witches broom	IV. Virus

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

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

Answer Given By Candidate is : 2

109

Question ID : 2229

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I	List - II
A. Wheat rust	I. Autocious
B. Linseed rust	II. Heterocious
C. Black rust	III. <i>Puccinia triticina</i>
D. Brown rust	IV. <i>Puccinia graminis</i> f. sp. <i>tritici</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-III, B-II, C-I, D-IV
- (4) A-IV, B-III, C-II, D-I

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

Answer Given By Candidate is : 2

111

Question ID : 2231

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I

- A. Brown rust of wheat
B. Yellow rust of wheat
C. Black rust of wheat
D. Loose smut of wheat

List - II

- I. *Ustilago nuda tritici*
II. *Puccinia triticina*
III. *Puccinia striiformis*
IV. *Puccinia graminis f. sp. tritici*

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

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

Answer Given By Candidate is : 1

112

Question ID : 2232

Topic Name : PLANT SCIENCES

113

Question ID : 2233

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I	List - II
A. Copper fungicides	I. Dithiocarbamates
B. Sulphur fungicides	II. Bordeaux mixture
C. Benzene fungicides	III. Dichlone
D. Quinone fungicides	IV. Chlorothalonil

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

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

Answer Given By Candidate is : 3

114

Question ID : 2234

Topic Name : PLANT SCIENCES

Match List - I with List - II.

List - I	List - II
Pest name	Scientific name
A. Brown plant hopper	I. <i>Diclodispa armigera</i>
B. Green leaf hopper	II. <i>Bemisia tabaci</i>
C. White fly	III. <i>Nilparvata lugens</i>
D. Rice hispa	IV. <i>Nephotettix nigropictus</i>

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

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

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

NOT ANSWERED

116

Question ID : 2236

Topic Name : PLANT SCIENCES

Arrange the classes of Fungi from lower to higher in order ?

- A. Basidiomycetes
- B. Ascomycetes
- C. Zygomycetes
- D. Oomycetes
- E. Fungi imperfecti (Deuteromycetes)

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

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

NOT ANSWERED

117

Question ID : 2237

Topic Name : PLANT SCIENCES

118

Question ID : 2238

Topic Name : PLANT SCIENCES

Arrange the wheat rust spore stages in the ascending order (0 - 4) stages.

- A. Pycniospores
- B. Teliospores
- C. Aeciospores
- D. Basidiospores
- E. Uredospores

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

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

NOT ANSWERED

119

Question ID : 2239

Topic Name : PLANT SCIENCES

Select the correct order of pathogenesis events.

- A. Colonisation
- B. Penetration
- C. Inoculum
- D. Infection
- E. Pre-penetration

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

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



Answer Given By Candidate is : 2

120

Question ID : 2240

Topic Name : PLANT SCIENCES

Recently, VKSA programme was started by _____.

- (1) DBT
- (2) ICMR
- (3) ICAR
- (4) ICCR

Answer Given By Candidate is : 3