Question No. 1 / Question ID 908 Marks: 4.00

Critical limit of HCN in sorghum (dry wt. basis) is:

1. 200 ppm
2. 400 ppm
3. 100 ppm
4. 500 ppm

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

Question No. 2 / Question ID 801 Marks: 4.00

Most abundant gas in our atmosphere that plants cannot utilize directly in its atmospheric form and is captured by certain bacteria that live symbiotically in the nodules of roots

1. Oxygen
2. Nitrogen
3. Neon
4. Hydrogen

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

Question No. 3 / Question ID 811 Marks: 4.00

Match List-I with List-II

List-I	List-II
(A). Leaves	(I). Anti – transpirant
(B). Seed	(II). Transpiration
(C). Root	(III). Imbibition
(D). Aspirin	(IV). Absorption

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

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

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

Question No. 4 / Question ID 895 Marks: 4.00

The most abundant minerals and mineral groups in sand and silt of soils throughout the world is:

1. Feldspars
2. Olivine
3. Quartz
4. Pyroxenes and Amphiboles

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

Question No. 5 / Question ID 879 Marks: 4.00

Read the following statements about drip irrigation

(A). Crops that are not too sensitive to salts can be drip-irrigated even with somewhat brackish water (1,000 mg /L of salts)

(B). Brackish water cannot be used with drip irrigation system at all as the salts clog the lateral pipes and emitters

(C). In drip irrigation, salts accumulate at the periphery of wetted circle

(D). Leaching of salts from drip irrigated fields is not required

(E). Irrigation efficiency of drip irrigation system is 80–85%

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

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

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

Question No. 6 / Question ID 805 Marks: 4.00

Which of the following is not a correct pairing of a macronutrient and its major function in growth and developments of plants?

1. Potassium-enzyme activation, water balance, ion balance.
2. Calcium-activity of membranes and cytoskeleton, second messenger.
3. Sulfur-in proteins and coenzymes.
4. Iron-in active sites of many redox enzymes and electron carriers.

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

Question No. 7 / Question ID 916 Marks: 4.00

The physical process of soil degradtion

1. Fertility imbalance
2. Organic matter decline
3. Erosion and depletion
4. Acidification

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

Question No. 8 / Question ID 806 Marks: 4.00

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

Assertion (A) : Nitrogen fixing bacteria require a rich supply of carbohydrates.

Reason (R) : The process of nitrogen fixation requires 16 ATP molecules for the synthesis every 2 ammonia molecules.

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

1. Both Assertion & Reason are true and the reason is the correct explanation of the assertion.
2. Both Assertion & Reason are true but the reason is not the correct explanation of the assertion.
3. Assertion is true statement but Reason is false.
4. Both Assertion and Reason are false statements.

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

Question No. 9 / Question ID 817 Marks: 4.00

Rotenone is a

1. Insect hormone
2. Natural insecticide
3. Bioherbicide
4. Natural herbicide

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

Question No. 10 / Question ID 822 Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : The temperature increases in the troposphere from ground to tropopause.

Reason (R) : Ozone absorbs ultra violet radiation in the stratosphere and makes it warm.

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

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

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

Question No. 11 / Question ID 834 Marks: 4.00

Given below are two statements:

Statement (I): Tilth indicates two properties of soil viz. the size distribution of aggregates and mellowness or friability of soil.

Statement (II): A higher per cent of larger aggregates (> 5 mm in diameter) is necessary for irrigated agriculture

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

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

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

Question No. 12 / Question ID 850 Marks: 4.00

Which of the following does not apply to SRI method of paddy cultivation?

1. Reduced water application
2. Reduced plant density
3. Increased application of chemical fertilizers
4. Reduced age of seedling transplanting

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

Question No. 13 / Question ID 804 Marks: 4.00

Match the following in correct combinations.

Set-I	**Set-II**
(A). Photolysis of water	(I). Zinc
(B). Diazotrophy	(II). Copper
(C). Cytochrome oxidase	(III). Manganese
(D). Biosynthesis of IAA	(IV). Molybdenum

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

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

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

Question No. 14 / Question ID 824 Marks: 4.00

What is the minimum cardinal temperature (^{0}C) of maize and wheat?

1. 5-7 and 1.0 - 2.5
2. 10-12 and 5.0 - 5.5
3. 8-10 and 3.0 - 4.5
4. 12-15 and 5.0 - 5.5

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

Question No. 15 / Question ID 833 Marks: 4.00

Time-series model, cross-section model and panel model are three main statistical methods of

1. Stochastic model
2. Mechanistic model
3. Deterministic model
4. Empirical model

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

Question No. 16 / Question ID 827 Marks: 4.00

At what height, remote sensing satellites are placed above the earth surface?

1. 800 km
2. 1000 km
3. 18000 km
4. 36000 km

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

Question No. 17 / Question ID 897 Marks: 4.00

The amount of Analytical Reagent grade potassium dichromate required for preparation of 1000 mL of potassium dichromate solution (0.1 N $K_2Cr_2O_7$). The atomic weight of K = 39, Cr = 52, and O = 16), is:

1. 4.9 g
2. 29.4 g
3. 294 g
4. 49.0 g

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

Question No. 18 / Question ID 807 Marks: 4.00

Osmotic expansion of a cell kept in water is chiefly regulated by an organelle

1. Mitochondria
2. Vacuoles
3. Plastids
4. Ribosomes

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

Question No. 19 / Question ID 847 Marks: 4.00

Optimum seed rate for a good crop stand of Isabgol is :

1. 1.0 kg/ha
2. 2.0 kg/ha
3. 4.0 kg/ha
4. 10 kg/ha

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

Question No. 20 / Question ID 818 Marks: 4.00

An enzyme that joins the ends of two strands of nucleic acid is

1. Polymerase
2. Ligase
3. Synthetase
4. Helicase

- ○ 1
- ○ 2 (Chosen Option)

3
4

Question No. 21 / Question ID 870 Marks: 4.00

Match **List-I** (practices) with **List-II (crops)**

List-I	List-II
(A). Blanket spray	(I). Maize
(B). Trash mulch	(II). Potato
(C). Earthing up	(III). Sugarcane ratoon
(D). Soybean intercropping	(IV). Sugarcane

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

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

1 (Chosen Option)
2
3
4

Question No. 22 / Question ID 881 Marks: 4.00

For irrigation in one ha wheat field, the level of CPE is fixed at 80 mm, compute the amount of irrigation water if desired IW/CPE ratio is 0.8.

1. 3.2 cm
2. 6.4 cm
3. 8.8 cm
4. 10 cm

1
2 (Chosen Option)
3
4

Question No. 23 / Question ID 893 Marks: 4.00

The fertilizer having least equivalent acidity is:

1. Urea
2. Ammonium nitrate
3. Ammonium chloride
4. Calcium ammonium nitrate

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

Question No. 24 / Question ID 840 Marks: 4.00

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

Assertion (A) : C4 plants usually do not reach radiation saturation in direct sunlight

Reason (R) : C4 plants use high radiation levels more efficiently at low levels than under full sunlight

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

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

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

Question No. 25 / Question ID 832 Marks: 4.00

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

List-I	**List-II**
(Name of ICAR research institutes)	**(Head quarter**
(A). ICAR- Research Complex for Eastern Region	(I). Bengaluru
(B). ICAR- National Institute of Natural Fibre Engineering and Technology.	(II). Patna
(C). ICAR- National Institute of Veterinary Epidemiology and Disease Informatics	(III). Trichi
(D). ICAR-National Research Centre for Banana	(IV). Kolkata

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

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

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

Question No. 26 / Question ID 860 Marks: 4.00

Given below are two statements:
Statement (I): *Chicorium intybus* is an objectionable weed species in Egyptian clover.

Statement (II): Egyptian clover on the ground of their smaller seeds are more vulnerable to have admixture with chicory seeds.

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

1. Statement (I) is correct and Statement (II) is the right explanation of Statement (I).
2. Statement (I) is correct but Statement (II) is not the right explanation of Statement (I).
3. Only Statement (I) is correct and Statement (II) is incorrect.
4. Statement (I) is incorrect and Statement (II) is correct.

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

Question No. 27 / Question ID 913 Marks: 4.00

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

List-I (Type of radiation)	**List-II (Wavelength)**
(A). Red	(I). <400 nm
(B). Blue	(II). 450-500 nm
(C). Ultraviolet	(III). >760 nm
(D). Infrared	(IV). 620-760 nm

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

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

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

Question No. 28 / Question ID 857 Marks: 4.00

Argimone mexicana is an objectionable weed of _____.

1. Linseed
2. Mustard
3. Lucerne
4. Sesamum

- ○ 1

○ 2 (Chosen Option)
○ 3
○ 4

Question No. 29 / Question ID 829 Marks: 4.00

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

Assertion (A) : A remote sensing system that possesses only a sensor and depends on an external source to irradiate the target to be sensed is called an active remote sensing system.

Reason (R) : Synthetic Aperture Radar uses microwave band to estimate soil moisture.

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

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

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 30 / Question ID 861 Marks: 4.00

Which of the following groups of herbicides, oxyflourfen belongs to?

1. Diphenyl ethers
2. Nitriles
3. Bipyridilliums
4. Oximes

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 31 / Question ID 852 Marks: 4.00

Rhizobium japonicum fixes N in symbiotic relationship with :

1. Pea group
2. Lupin group
3. Soybean group
4. *Phaseolus* group

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 32 / Question ID 810 Marks: 4.00

Given below are two statements:
Statement (I): The greater is the concentration of water in a system, lower is its kinetic energy or water potential

Statement (II): Pure water will have the lowest water potential

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

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

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

Question No. 33 / Question ID 808 Marks: 4.00

Which one of the following is a wrong statement?

1. Greenhouse effect is a natural phenomenon.
2. Ozone in upper part of atmosphere is harmful to animals
3. Eutrophication is a natural phenomenon in freshwater bodies.
4. Most of the forest have been lost in tropical areas.

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

Question No. 34 / Question ID 809 Marks: 4.00

Match List-I with List-II

List-I	List-II
(Cell organelle)	**(Functions)**
(A). Vacuole	(I). Respiration
(B). Mitochondria	(II). Photosynthesis
(C). Chloroplast	(III). Protein synthesis
(D). Ribosomes	(IV). Accumulation of toxic materials

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

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

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

Question No. 35 / Question ID 914 Marks: 4.00

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

Assertion (A) : NBPT (N-(n-butyl) thiophosphoric triamide) (commercial name Agrotain®).

Reason (R) : It competes for active sites on the urease enzyme and ties up activity for about 25 days.

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

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

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

Question No. 36 / Question ID 876 Marks: 4.00

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

List-I	**List-II**
(Crop)	**(Water requirement)**
A. Cotton	I. 700-1300
B. Maize	II. 500-800
C. Wheat	III. 700-1000
D. Groundnut	IV. 500-700
E. Pineapple	V. 450-650

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

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

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

Question No. 37 / Question ID 875 Marks: 4.00

A 20,000 m^2 maize crop field was supplied with 60 mm depth of irrigation, find out how many liters of water has gone into the field.

1. 3 lakh
2. 6 lakh
3. 8 lakh
4. 12 lakh

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

Question No. 38 / Question ID 880 Marks: 4.00

A mustard crop is irrigated in 30 hours, with a discharge rate of 200 litres per minute, workout the average depth of irrigation

1. 90 mm
2. 66.6 mm
3. 60 mm
4. 36 mm

- ○ 1

○ 2
○ 3
○ 4 (Chosen Option)

Question No. 39 / Question ID 891 Marks: 4.00

The mineral containing boron (B) is:

1. Tourmaline
2. Topaz
3. Epidote
4. Francolites

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 40 / Question ID 826 Marks: 4.00

Global warming potential of SF_6 is

1. 23,500
2. 22,500
3. 20,500
4. 15,500

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 41 / Question ID 816 Marks: 4.00

Match List I with List II:

List - I	**List - II**
A. Centriole	I. Thylakoids
B. Chlorophyll	II. Infoldings in mitochondria
C. Cristae	III. Nucleic acids
D. Ribozymes	IV. Basal body cilia or flagella

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

○ 1 (Chosen Option)
○ 2

- 3
- 4

Question No. 42 / Question ID 828 Marks: 4.00

For how many days in advance, weather forecasts are currently issued by IMD in Gramin Krishi Mausam Sewa (GKMS) Project?

1. 3 days
2. 5 days
3. 10 days
4. 21 days

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

Question No. 43 / Question ID 843 Marks: 4.00

The long duration pulse crop is :

1. Green gram
2. Black gram
3. Cowpea
4. Pigeonpea

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

Question No. 44 / Question ID 845 Marks: 4.00

Seed rate of fodder oats is :

1. 20 kg/ha
2. 50 kg/ha
3. 100 kg/ha
4. 200 kg/ha

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

Question No. 45 / Question ID 910 Marks: 4.00

For applying 100 kg N/ha, how much urea would be required?

1. 46 kg
2. 117 kg
3. 217 kg
4. 317 kg

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

Question No. 46 / Question ID 865 Marks: 4.00

The first case of confirmed herbicide resistance in weed was reported by _____.

1. C.F. Ryan
2. Cive James
3. I. Heap
4. S.O. Duke

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

Question No. 47 / Question ID 902 Marks: 4.00

The major mechanism of reducing heat from the crop canopy is :

1. Advective heat losses
2. Evaporation
3. Transpiration
4. Heat absorption by soil

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

Question No. 48 / Question ID 884 Marks: 4.00

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

List-I	**List-II**
(Ruler/ruling tenure)	**(Contribution in irrigation)**
A. Sir Marques of Ripon's Tenure	I. Renal irrigation scheme
B. Shahjahan's rule	II. Initiation of well irrigation schemes through Takkavi loans
C. Lodhi Rulers	III. Hasli canal
D. Sir, Ganga Ram	IV. Establishment of first irrigation commission
E. Lord Cruzan's tenure	V. Contribution to irrigation development is not worth mentioning

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

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

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

Question No. 49 / Question ID 912 Marks: 4.00

The sulphur content (%) in the following fertilizers are:

(A). Single superphosphate (SSP) contains 9-12% S.

(B). Ammonium sulphate contains 16% S.

(C). Potassium sulphate contains 18% S

(D). Ammonium phosphate sulphate contains 15%.

Choose the correct answer from the options given below:

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

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

Question No. 50 / Question ID 915 Marks: 4.00

Read the following statements about silicon.

(A). Silicon has the beneficial role in rice and sugarcane crops.

(B). It contributes to rigidity and strengthening of the cell wall.

(C). It enhances the physiological availability of zinc in plants and counteracts zinc-deficiency-induced phosphorus toxicity.

(D). Nearly, 60% of the mineral matter of most of the soils consists of the combined oxides of silicon, aluminium and iron.

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

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

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

Question No. 51 / Question ID 906 Marks: 4.00

Which crop among the following is relatively most tolerant to salinity :

1. Green gram
2. Rice
3. Maize
4. Barley

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

Question No. 52 / Question ID 848 Marks: 4.00

Berseem crop is the native of :

1. India
2. Bhutan
3. Egypt
4. Mexico

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

Question No. 53 / Question ID 842 Marks: 4.00

The theoratical range of NDVI is :

1. 0-1
2. -1 to +1
3. -1 to 0
4. 0 to 100

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

Question No. 54 / Question ID 873 Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : At sea-level, where the atmospheric pressure is at 1 bar a tensiometer can be used to indicate soil suction values upto 1 bar

Reason (R) : Beyond this value, because of low pressure, the water column in the tensiometer would break into vapour or boil away and leave the tensiometer system making it inoperative

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

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

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

Question No. 55 / Question ID 858 Marks: 4.00

Given below are two statements:
Statement (I): Increasing fertilizer rates to maintain yields in weedy fields can be a waste of resources.

Statement (II): Increasing fertilizer rates to give competitive advantage on already weeded plots may sustain the effect of weeding.

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

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

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

Question No. 56 / Question ID 889 Marks: 4.00

Red sandy clay loam soils (Chalka soil) are found in the state of:

1. Andhra Pradesh
2. Tamil Nadu
3. Karnataka
4. Kerala

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

Question No. 57 / Question ID 900 Marks: 4.00

Brays No. 1 reagent consists of mixture of

1. 0.03 N NH_4F + 0.025 N HCl
2. 0.3 N NH_4F + 0.025 N HCl
3. 0.03 N NH_4F + 0.25 N HCl
4. 0.3 N NH_4F + 0.25 N HCl

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

Question No. 58 / Question ID 903 Marks: 4.00

Available water for plant indicates water held between :

1. 0.33 bar to 15.0 bar
2. 0.1 bar to 0.33 bar
3. Above 15.0 bar
4. Below 0.1 bar only

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

Question No. 59 / Question ID 874 Marks: 4.00

At ultimate wilting point, soil water potential is

1. – 15 bars
2. – 20 bars
3. –30 bars
4. –60 bars

- ○ 1

- ○ 2
- ○ 3
- ○ 4 (Chosen Option)

Question No. 60 / Question ID 917 Marks: 4.00

Given below are two statements:

Statement (I): The principles of conservation agricultrue are minimum soil disturbance, permanent soil cover and mixing and rotating cops.

Statement (II): The three factors important for the success of CA are timely operations, precise operations and efficient use of inputs.

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

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

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

Question No. 61 / Question ID 851 Marks: 4.00

Cotton fibre is made up of :

1. Crude fibre
2. Starch
3. Cellulose
4. Lignin

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

Question No. 62 / Question ID 837 Marks: 4.00

Given below are two statements:

Statement (I): In CAM plants the stomata open at day time and a large amount of carbon dioxide is fixed as malic acid which is stored in vacuoles

Statement (II): In CAM plants, during night time as the stomata are closed, there is no possibility of carbon di oxide entry

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

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

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

Question No. 63 / Question ID 885 Marks: 4.00

Most common salt in saline water is

1. Magnesium chloride
2. Sodium chloride
3. Calcium sulphate
4. Sodium sulphate

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

Question No. 64 / Question ID 868 Marks: 4.00

Herbicidal control for *Lantana camara*

1. Pendimethalin
2. Glyhosate
3. Atrazine
4. Metolachlor

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

Question No. 65 / Question ID 815 Marks: 4.00

Sugarcane seed sets essentially have buds

1. 1
2. 2
3. 3
4. 4

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

Question No. 66 / Question ID 904 Marks: 4.00

Popular oilseed crops that can be grown as intercrop in cotton:

1. Groundnut and mustard
2. Soyabean and safflower
3. Groundnut and safflower
4. Soyabean and groundnut

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

Question No. 67 / Question ID 892 Marks: 4.00

Filter cake is a byproduct of

1. Textile Industry
2. Sugar Industry
3. Paper Industry
4. Dye Industry

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

Question No. 68 / Question ID 839 Marks: 4.00

Weight of a soil sample with can is 220 g and dry weight with can is 190 g. Weight of empty moisture can is 45 g. Calculate moisture content of soil sample.

1. 18.7 %
2. 20.7 %
3. 25.7%
4. 27.3 %

- ○ 1
- ○ 2 (Chosen Option)

- 3
- 4

Question No. 69 / Question ID 883 Marks: 4.00

Water measuring device used for determining discharge from a piped irrigation system is usually

1. Weir
2. V-notch
3. Flow meter
4. Flume

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

Question No. 70 / Question ID 907 Marks: 4.00

What will be the WUE (kg/ha/mm), if wheat crop used 40 cm of water during whole period and yielded 4.0 t/ha of grains?

1. 10
2. 100
3. 40
4. 0.1

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

Question No. 71 / Question ID 886 Marks: 4.00

First remote sensing satellite in India is

1. IRS- 1A
2. IRS-1B
3. ERST-1
4. LANDSAT- 1

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

Question No. 72 / Question ID 871 Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : In the initial phase of flooding (phase 1), there is decrease in hydraulic conductivity

Reason (R) : In the initial phase of submergence, the rate of reduction of hydraulic conductivity due to microbial sealing exceeds the rate of increase of hydraulic conductivity caused by the removal of entrapped air

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

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

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

Question No. 73 / Question ID 859 Marks: 4.00

Main dispersal agent of Dandlion is _____.

1. Wind
2. Water
3. Birds
4. Humans

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

Question No. 74 / Question ID 803 Marks: 4.00

The golgi complex plays a major role

1. In digesting proteins and carbohydrates
2. As energy transferring organelles
3. In post translational modification of proteins and glycosidation of lipids
4. In trapping the light and transforming it into chemical energy

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

Question No. 75 / Question ID 920 Marks: 4.00

In which of the Indian States, shifting cultivation is practiced?

1. Odisha
2. Karnataka
3. Rajesthan
4. 1 and 2 above

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

Question No. 76 / Question ID 911 Marks: 4.00

Given below are two statements:

Statement (I): In strongly acidic soils, $H_2PO_4^-$ form dominates, while in alkaline soils, P is largely present as HPO_4^{2-} form.

Statement (II): Plant takes both the form of $H_2PO_4^-$ and HPO_4^{2-} in equal amounts for their growth and development.

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

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

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

Question No. 77 / Question ID 899 Marks: 4.00

Read the following statements carefully.

(A). 2-Chloro-6-trichloromethyl pyridine

(B). 2 Amino-4-chloro-6-methyl pyrimidine

(C). Phenyl phosphoro diamidate

(D). Dicyandiamide

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

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

- ○ 1
- ○ 2
- ○ 3 (Chosen Option)

○ 4

Question No. 78 / Question ID 812 Marks: 4.00

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

Assertion (A): Water and mineral uptake by root hairs from the soil occurs through apoplast until it reaches endodermis.

Reason (R): Casparian strips in endodermis are suberized.

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

1. Both Assertion & Reason are true and the Reason is the correct explanation of the Assertion.
2. Both Assertion & Reason are true but the Reason is not the correct explanation of the Assertion.
3. Assertion is true statement but Reason is false.
4. Both Assertion and Reason are false statements.

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 79 / Question ID 856 Marks: 4.00

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

List-I (Weed)	**List-II (Character)**
(A). *Xanthium strumarium*	(I). Sharp spines
(B). *Tribulus terestris*	(II). Scarious bracts
(C). *Achyranthus aspera*	(III). Sticky glands
(D). *Boerhavia repens*	(IV). Hooks

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 80 / Question ID 835 Marks: 4.00

Over the last 150 years, 2003 was the hottest year with the average temperature being ___ °C higher than normal.

1. 0.45
2. 0.55
3. 0.65
4. 0.75

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

Question No. 81 / Question ID 863 Marks: 4.00

Arrange herbicides in ascending order with respect to their first synthesis

(A). Paraquat

(B). Pretilachlor

(C). Pendimethalin

(D). Simazine

(E). Sulfosulfuron

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

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

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

Question No. 82 / Question ID 896 Marks: 4.00

The Father of Soil Science and Agricultural Chemistry in India is:

1. Collings
2. Stewart
3. J.B. Lawes
4. J.W. Leather

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

Question No. 83 / Question ID 872 Marks: 4.00

If a soil has 10% less moisture than its field capacity, what will be depth of irrigation required to bring soil moisture level to field capacity for a soil having depth 0.4 m and bulk density 1.2 mega gram/m^3?

1. 4.2 cm
2. 4.8 cm
3. 5.6 cm
4. 8.8 cm

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

Question No. 84 / Question ID 894 Marks: 4.00

In 1843, an agricultural experiment station was established at Rothamsted, England by:

1. J.B. Lawes and J.H. Gilbert
2. J.B. Boussingault
3. Justus von Liebig
4. Mitscherlich

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

Question No. 85 / Question ID 864 Marks: 4.00

Given below are two statements:

Statement (I): An herbicide label is a legal contract between manufacturer, user and regulatory body.

Statement (II): Flowable formulation is an example of liquid formulation.

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

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

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

Question No. 86 / Question ID 862 Marks: 4.00

Inhibitors of photosynthesis at photosystem II

1. Thiocarbamates
2. Ureas
3. Glycines
4. Benzoic acids

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

Question No. 87 / Question ID 830 Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : A Global Positioning System (GPS) links spatial data with descriptive information about a particular feature on a map.

Reason (R) : The information is stored as attributes of the geographically represented features.

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

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

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

Question No. 88 / Question ID 909 Marks: 4.00

According to IMD, a day is called as rainy day if the minimum amount of rainfall during a period of 24 hours is :

1. 2.5 cm
2. 5.0 cm
3. 0.25 cm
4. 0.75 cm

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

Question No. 89 / Question ID 836 Marks: 4.00

Given below are two statements:

Statement (I): Mycorrhiza soil fungi, solubilizes potassium (K) in soil and makes available to plants on which they live.

Statement (II): The mycorrhizae that live inside roots are *Phoma* and *Rizoctonia*

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

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

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

Question No. 90 / Question ID 878 Marks: 4.00

Read the following statements about economization of irrigation water in rice

(A). Physical characteristics of infiltrating water have no effect on infiltration rate

(B). The depth of wetting increases the infiltration rate

(C). Viscosity of water increases infiltration rate hyperbolically

(D). Pore sizes increase infiltration rate parabolically

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

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

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

Question No. 91 / Question ID 919 Marks: 4.00

The first country which adopted an agroforestry policy

1. Nigeria
2. India
3. Sri Lanka
4. Brazil

- ○ 1
- ○ 2 (Chosen Option)
- ○ 3

○ 4

Question No. 92 / Question ID 802 Marks: 4.00

Nitrogenase

1. Is insensitive to oxygen
2. Contains magnesium
3. Releases two NH_3 molecules as products
4. Requires an aerobic environment

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 93 / Question ID 918 Marks: 4.00

The flagship scheme "Swachh Bharat Mission" was launched by Government of India in _____.

1. 1986
2. 1998
3. 2008
4. 2014

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 94 / Question ID 854 Marks: 4.00

Dehydrogenase activity is a good index of biological activity of soil because it plays a role in :

1. Carbon metabolism
2. Respiration
3. Synthesis of cell macro-molecules
4. Cell division

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 95 / Question ID 821 Marks: 4.00

The instrument used for measuring photosynthetically active radiation (PAR) is

1. Campbell stroke sun shine recorder
2. Pyranometer
3. Line quantum sensor
4. Pyrheliometer

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

Question No. 96 / Question ID 898 Marks: 4.00

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

List-I (Property)	List-II (Instrument)
(A). Particle density	(I). Wet sieving
(B). Soil moisture suction	(II). Pychrometer
(C). Humidity	(III). Pycnometer
(D). Aggregate stability	(IV). Tentiometer

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

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

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

Question No. 97 / Question ID 819 Marks: 4.00

Zn^{+2} is an inorganic activator for enzymes

1. Carbonic anhydrase
2. Phosphatase
3. Chymotryps
4. Maltase

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

Question No. 98 / Question ID 813 Marks: 4.00

When farmers of a particular region were concerned that pre-mature yellowing of leaves of a pulse crop might cause decrease in the yield. Which treatment could be most beneficial to obtain maximum seed yield in pulse crop?

1. Appplication of iron and magnasium to promote synthesis of chlorophyll content
2. Frequent irrigation of the crop
3. Treatment of the plants with cytokinins along with a small dose of nitrogenous fertilizer
4. Removal of all yellow leaves and spraying the remaining green leaves with 2, 4, 5 trichlorophenoxy acetic acid

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

Question No. 99 / Question ID 838 Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : The water budget in the field is accounting the inputs and outputs of water and also considers the volume of water present in the field.

Reason (R) : The main governing factor in field water budget is the stored soil moisture.

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

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

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

Question No. 100 / Question ID 831 Marks: 4.00

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

Assertion (A) : Mie scattering depends on the size of the scatterers in relation to the wavelength of radiation being scattered.

Reason (R) : Approximate particle size of Mie scatterer is 0.1 to 10 μm.

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

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

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

Question No. 101 / Question ID 841 Marks: 4.00

The matric potential of the soil is the result of :

1. Osmotic action
2. Attraction due to ions
3. Adsorption due to soil solids
4. Attraction due to gravity of earth

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

Question No. 102 / Question ID 849 Marks: 4.00

The disease '*Ear cockle*' of wheat is caused by :

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

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

Question No. 103 / Question ID 853 Marks: 4.00

The specificity between legume host and *Rhizobium spp.* is governed by :

1. Flavonoides
2. Tryptophan
3. Polysaccharides
4. Indole acetic acid

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

Question No. 104 / Question ID 888 Marks: 4.00

Rhenania phosphate - a P containing fertilizer contains:

1. 26-27% P_2O_5
2. 28-30% P_2O_5
3. 31-33% P_2O_5
4. 34-36% P_2O_5

- ○ 1 (Chosen Option)

- 2
- 3
- 4

Question No. 105 / Question ID 866 Marks: 4.00

Match **List-I** (herbicide class) with **List-II (herbicide group)**

List-I	List-II
(A). Weak base herbicide	(I). Sulfonyl ureas
(B). Strong base herbicide	(II). Triazines
(C). Weak acid herbicide	(III). Dintroanilines
(D). Non-ionic herbicide	(IV). Bipyridilliums

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

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

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

Question No. 106 / Question ID 890 Marks: 4.00

According to the USDA classification, the size of fine sand fraction is:

1. 0.5 mm
2. 0.25 mm
3. 0.1 mm
4. 0.05 mm

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

Question No. 107 / Question ID 823 Marks: 4.00

What is the date of vernal equinox in the northern hemisphere ?

1. 22nd December
2. 21st March
3. 21st June
4. 23rd September

Stem nodulating green manure crop is :

1. Sunhemp
2. *Sesbania aculata*
3. *Sesbania rostata*
4. *Tephrosia spp.*

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

Question No. 112 / Question ID 882 Marks: 4.00

Given below are two statements:

Statement (I): In Gridiron drainage system, laterals are provided on both sides of mains

Statement (II): The Gridiron drainage system is adopted when the land is practically level or where the land slopes away from the sub-mains on one side and when the entire area has to be drained.

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

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

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

Question No. 113 / Question ID 869 Marks: 4.00

Tembotrione is registered for use in _____.

1. Soybean
2. Maize
3. Barley
4. Lentil

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

Question No. 114 / Question ID 855 Marks: 4.00

Cotton belongs to the family:

1. Cruciferae
2. Anacardiaceae
3. Malvaceae
4. Solanaceae

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

Question No. 115 / Question ID 887 Marks: 4.00

Most bioaccumulator of cadmium (Cd) and lead (Pb) is:

1. Sugar beet
2. Mustard
3. Spinach
4. Cabbage

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

Question No. 116 / Question ID 825 Marks: 4.00

Given below are two statements:

Statement (I): The greenhouse effect is retention of heat in the lower atmosphere due to absorption and re-radiation by clouds and certain gases

Statement (II): Long-wave thermal solar radiation received from the sun passes through the atmosphere with little or no interference and warms the earth's surface.

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

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

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

Question No. 117 / Question ID 814 Marks: 4.00

Given below are two statements:
Statement (I): The direction of movement of water and nutrients in xylem and phloem is unidirectional

Statement II: Sucrose is transported from the source to the sink via phloem

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

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

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

Question No. 118 / Question ID 905 Marks: 4.00

The most suitable group of crops for dryland agriculture is :

1. Rapeseed-mustard, chickpea
2. Berseem, potato
3. Sunflower, potato
4. Sugercane, peas

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

Question No. 119 / Question ID 844 Marks: 4.00

The HD-2967 is the prominant variety of :

1. Wheat
2. Chickpea
3. Barley
4. Potato

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

Question No. 120 / Question ID 877 Marks: 4.00

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

Question No. 108 / Question ID 820 Marks: 4.00

Which of the following vitamins serves as a hormone precursor?

1. Vitamin A
2. Vitamin C
3. Vitamin D
4. Vitamin K

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

Question No. 109 / Question ID 901 Marks: 4.00

Accumulation of soluble salts in soil is called as :

1. Humification
2. Salinization
3. Laterization
4. Gleization

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

Question No. 110 / Question ID 867 Marks: 4.00

Given below are two statements:
Statement (I): A foot operated sprayer is basically used for orchard and tree spraying.

Statement (II): Hydraulic pressure of 10 kg/cm^2 can be achieved with a foot sprayer which is necessary to project the jet of spray to tall trees.

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

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

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

Question No. 111 / Question ID 846 Marks: 4.00

Given below are two statements:

Statement (I): On steeper sloping land, contour furrows can be used up to a maximum land slope of 5%.

Statement II: In furrow irrigation, a minimum slope of 0.01% is recommended to assist drainage.

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

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

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

Save & Print

NATIONAL TESTING AGENCY

ICAR's All India Entrance Examination July 2023

Final Answer Key

Exam Date : 14.07.2023 Shift : FIRST

Subject : PG - AGRONOMY (5)

Question ID	Correct Option	Question ID	Correct Option	Question ID	Correct Option
801	2	856	2	911	3
802	3	857	2	912	3
803	3	858	1	913	2
804	2	859	1	914	3
805	4	860	1	915	1
806	1	861	1	916	3
807	2	862	2	917	1
808	2	863	1	918	4
809	1	864	3	919	2
810	2	865	1	920	4
811	1	866	1		
812	1	867	1		
813	1	868	2		
814	4	869	2		
815	3	870	1		
816	1	871	3		
817	2	872	2		
818	2	873	1		
819	1	874	4		
820	3	875	4		
821	3	876	1		
822	4	877	2		
823	2	878	2		
824	3	879	3		
825	3	880	4		
826	1	881	2		
827	1	882	4		
828	2	883	3		
829	4	884	1		
830	4	885	2		
831	2	886	1		
832	1	887	3		
833	2	888	2		
834	1	889	1		
835	1	890	2		
836	4	891	1		
837	2	892	2		
838	3	893	4		
839	2	894	1		
840	1	895	3		
841	3	896	4		
842	2	897	1		
843	4	898	3		
844	1	899	2		
845	3	900	1		
846	3	901	2		
847	3	902	3		
848	3	903	1		
849	4	904	4		
850	3	905	1		
851	3	906	4		
852	3	907	1		
853	3	908	1		
854	2	909	3		
855	3	910	3		