Application No	
Roll No	
Candidate Name	
Module Name	
Exam Date	**09-Jul-2023**
Exam Batch	**10:00-12:00**

1) AGRONOMY

Question No. 1 / Question ID 955 Marks: 4.00

Aeroponic technology is commercially used in quality seed/planting material production in

1. Tomato
2. Capsicum
3. Potato
4. Brinjal

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 2 / Question ID 971 Marks: 4.00

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

List-I	**List-II**
Dam/Reservoir	**State**
(A) Tawa	(I) Uttar Pradesh
(B) Lower Bhavani	(II) Madhya Pradesh
(C) Balimala	(III) Tamil Nadu
(D) Matatila	(IV) Odisha
(E) Mayurakshi	(V) West Bengal

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

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

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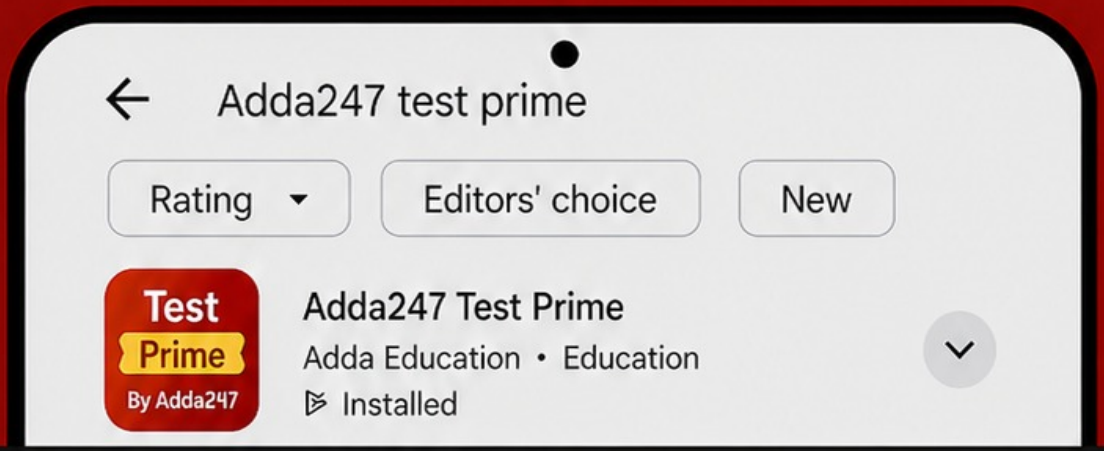

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Question No. 3 / Question ID 991 Marks: 4.00

Given below are two statements: One is labeled as **Statement (I)** and the other is labeled as (**Statement II**).

Statement (I) : In India, Agricultural and Processed Food Products Export Development Authority (APEDA), Ministry of Commerce, Government of India, is the key accreditation agency

Statement (II) : During XII Plan, Government of India initiated a Scheme named "Paramparagat Krishi Vikas Yojana" or "PKVY", which envisages promotion of organic farming.

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. 4 / Question ID 1002 Marks: 4.00

The term allelopathy was coined by

1. Holm
2. Harper
3. Molisch
4. Arnon

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 5 / Question ID 974 Marks: 4.00

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

Assertion (A) : Addition of organic matter to a mineral soil leads to improvement in water holding capacity of the soil.

Reason (R) : Under tropical conditions, water holding properties and available water range of a mineral soil due to addition of organic matter may not change materially

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 6 / Question ID 947 Marks: 4.00

An intercropping system can be said beneficial, if it has LER:

1. Equal to 1.0
2. < 1.0
3. >1.0
4. Zero

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 7 / Question ID 1020 Marks: 4.00

Integrated Wasteland Development Programme (IWDP) had been under implementation since

1. 1979-80
2. 1989-90
3. 1994-95
4. 1997-98

○ 1
○ 2
○ 3

○ 4 (Chosen Option)

Question No. 8 / Question ID 950 Marks: 4.00

The Kufri Bahar is a prominant variety of

1. Sunflower
2. Cotton
3. Potato
4. Tobacco

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 9 / Question ID 932 Marks: 4.00

Which of the following statements are correct for "Tillage"?

(A) The most important objectives of tillage are seedbed preparation, increasing soil fertility, and soil moisture conservation.

(B) Tillage increases the bulk density of soil in the longirerer.

(C) Tillage improve soil tilth, soil aeration and root penetration.

(D) Tillage removes hard pans thus increase the soil depth for water absorption.

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 10 / Question ID 943 Marks: 4.00

Area of the micro-watershed is

1. 10-100 ha
2. 100-1000 ha
3. 1000-10000 ha
4. 10000-50000 ha

○ 1 (Chosen Option)
○ 2
○ 3

○ 4

Question No. 11 / Question ID 987 Marks: 4.00

Parker et al. (1951) introduced the concept of Nutrient Index Value (NIV) to describe the fertility status of soils for the purpose of mapping. The NIV value of medium nutrient status is:

1. 0.5-1.0
2. 1.0-1.5
3. 1.5-2.0
4. 1.5-2.5

○ 1
○ 2
○ 3
○ 4

Question No. 12 / Question ID 907 Marks: 4.00

The transcription factor SNAC1 (Stress-responsive NAC1) is involved in drought stress response in which of the following crop plants ?

1. *Sorghum bicolor* (sorghum)
2. *Phaseolus vulgaris* (common bean)
3. *Brassica napus* (rapeseed)
4. *Musa spp* (banana)

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 13 / Question ID 909 Marks: 4.00

Leaf relative growth rate (LRGR) can be calculated using which of the following expressions ?

1. $LRGR = \frac{Log LW2 - Log\ LW1}{t2 - t1}$
2. $LRGR = \frac{LW2 - LW1}{t2 - t1}$
3. $LRGR = \frac{Log LW2 + Log\ LW1}{t2 - t1}$
4. $LRGR = \frac{LW2 + LW1}{t2 - t1}$

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

Question No. 14 / Question ID 1018 Marks: 4.00

Biochar produd by incomplete combustion of biological materials is rich in

1. Nitrogen
2. Sulphur
3. Phosphorus
4. Carbon

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

Question No. 15 / Question ID 915 Marks: 4.00

During translocation of photosynthates is plants from source to sink :

1. The loading of photosynthates at source is by active transport and unloading at the sink is by passive transport.
2. The loading of photosyntates at source is by passive transport and unloading at the sink is by active transport.
3. Both loading at the source and unloading at the sink are by active transport.
4. Both loading at the source and unloading at the sink are by passive transport.

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

Question No. 16 / Question ID 956 Marks: 4.00

Weed seed dispersal by ants is called as

1. Exozoochory
2. Autochory
3. Myrmecochory
4. Herpochory

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

Question No. 17 / Question ID 910 Marks: 4.00

The efficiency of PCR amplification in DNA barcoding can be enhanced by the presence of which mineral nutrient known for its stabilizing effect on DNA polymerase?

1. Rhodium
2. Ruthenium
3. Osmium
4. Iridium

○ 1
○ 2
○ 3
○ 4

Question No. 18 / Question ID 959 Marks: 4.00

Which among the following is an ephemeral weed?

1. *Stellaria media*
2. *Phalaris minor*
3. *Medicago denticulata*
4. *Phyllanthus niruri*

○ 1
○ 2
○ 3
○ 4

Question No. 19 / Question ID 999 Marks: 4.00

The targeted yield concept for soil fertility evaluation was proposed by:

1. S.P. Raychaudhuri
2. T.D. Biswas
3. B. Ramamoorthy
4. N.P. Datta

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 20 / Question ID 982 Marks: 4.00

A sugarcane crop of 2 ha area was irrigated 5 times with 6 cm water in each irrigation; workout the total quantity of water applied in cubic meter.

1. 15000
2. 12000
3. 6000
4. 3000

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 21 / Question ID 944 Marks: 4.00

Type of soil water available for normal crop growth

1. Hygroscopic
2. Gravitational
3. Capillary
4. Hygroscopic and Gravitational

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 22 / Question ID 933 Marks: 4.00

Given below are two statements:

Statement (I) : Precision agriculture is generally defined as information and technology based farm management system to identify, analyze and manage variability within fields for optimum profitability, sustainability and protection of the land resources.

Statement (II) : Precision agriculture is the application of drone technologies in agricultural production

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. 23 / Question ID 964 Marks: 4.00

Given below are two statements:

Statement (I) : Three types of adjuvants used with herbicides are activator, spray modifier and utility.

Statement (II) : Activator adjuvants are a part of the 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
○ 2
○ 3
○ 4

Question No. 24 / Question ID 921 Marks: 4.00

The country that has given name of the tropical cyclone "Mocha" developed in the month of May, 2023 in Bay of Bengal is

1. Bangladesh
2. Pakistan
3. India
4. Yemen

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 25 / Question ID 975 Marks: 4.00

Read the following statements.

(A) TDR stands for Time Domain Refraction.

(B) TDR is based on the estimation of dielectric constant of water.

(C) Dielectric constant of water is 80.

(D) TDR is relatively unaffected by salinity or bulk density variations.

(E) TDR measures soil moisture suction.

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

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

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

Question No. 26 / Question ID 949 Marks: 4.00

Planting geometry that ensures a uniform incidence of solar radiation

1. Square planting
2. Rectangular planting
3. Mixed planting
4. Random planting

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

Question No. 27 / Question ID 958 Marks: 4.00

Given below are two statements:

Statement (I) : The combined effect of competition and allelopathy where growth of weeds or crop or both is reduced is called allelomediation.

Statement (II) : Allelopathy depends on addition of chemical compounds while competition involves removal of an essential factor from the environment.

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. 28 / Question ID 912 Marks: 4.00

A lack of micronutrients affects not only plant growth but also vital functions, such as photosynthetic and mitochondrial electron flow. Which of the following group of elements shall have the greatest impact on both photosynthetic and mitochondrial electron transport?

1. Co, Ni and Mo
2. Ca, K and Na
3. Mn, Co and Ca
4. Cu, Mn and Fe

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 29 / Question ID 962 Marks: 4.00

Inhibitors of photosynthesis at photosystem I.

1. Sulfonylureas
2. Benzoic acids
3. Diphenyl ethers
4. Bipyridyls

○ 1 (Chosen Option)

○ 2
○ 3
○ 4

Question No. 30 / Question ID 1014 Marks: 4.00

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

Assertion (A) : Organic-S is made available to plants under aerobic upland conditions by mineralization into sulphates by S-oxidizing bacteria such as *Thiobacillus*.

Reason (R) : Mineralization of organic-S results in production of H^+ ions leading to the acidification of soil.

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. 31 / Question ID 914 Marks: 4.00

In which of the following organelles, enzyme pyruvate dehydrogenease complex and glycolytic pathway are located

1. Cytosol and Mitochondria
2. Cytosol and chloroplast
3. Golgi bodies and ER
4. Microsomes and ribosomes

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 32 / Question ID 942 Marks: 4.00

The Dapog method of raising rice nursery was introduced in India from

1. Myanmar
2. Japan
3. China
4. Philippines

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 33 / Question ID 1001 Marks: 4.00

Which one is a minor-millet ?

1. Foxtail millet
2. Buck wheat
3. Sorghum
4. Barley

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 34 / Question ID 930 Marks: 4.00

The concentration of nitrogen in atmosphere upto 50 km from the ground surafce is

1. About 48% nitrogen
2. About 58% nitrogen
3. About 68% nitrogen
4. About 78% nitrogen

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 35 / Question ID 931 Marks: 4.00

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

List-I (CGIAR centers.)	**List-II** (Headquarter.)
(A) International Institute of Tropical Agriculture (IITA)	(I) Nairobi, Kenya
(B) International Livestock Research Institute (ILRI)	(II) Battaramulla, Sri Lanka
(C) International Water Management Institute (IWMI)	(III) Beirut, Lebanon
(D) International Center for Agricultural Research in the Dry Areas (ICARDA)	(IV) Ibadan, Nigeria

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

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 36 / Question ID 941 Marks: 4.00

The practice of controlling water erosion by cultivation of alternate erosion permitting and erosion resistant crops is called as

1. Mixed cropping
2. Intercropping
3. Strip cropping
4. Relay cropping

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 37 / Question ID 966 Marks: 4.00

Which of the following herbicides is highly volatile?

1. Pendimethalin
2. Atrazine
3. Ethalfluralin
4. EPTC

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 38 / Question ID 1003 Marks: 4.00

What will be the concentration of an atrazine solution if 2 kg of atrataf (50 y.a i of atrazina)

1. 0.2 %
2. 2.0 %
3. 0.1 %
4. 1.0 %

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 39 / Question ID 970 Marks: 4.00

Match **Cultural pracices** with **crops**

Cultural Practice	Crop
(A) Beushaning	(I) Sunflower
(B) Blind hoeing	(II) Maize
(C) Earthing up	(III) Rice
(D) Intercultivation with bullocks	(IV) Sugarcane

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

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

○ 1
○ 2 (Chosen Option)

○ 3
○ 4

Question No. 40 / Question ID 983 Marks: 4.00

Which among the followings provides the correct sequence of four zones of the infiltration profile (from top to bottom)

1. Transmission Zone – Wetting Zone – Transition Zone – Saturation Zone
2. Saturation Zone – Transition Zone –Transmission Zone – Wetting Zone
3. Transmission Zone – Transition Zone – Saturation Zone – Wetting Zone
4. Wetting Zone – Transmission Zone – Transition Zone – Saturation Zone

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 41 / Question ID 939 Marks: 4.00

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

Assertion (A) : Ridging increases albedo, thereby increasing the effective incoming radiation compared to a flat surface.

Reason (R) : Tillage causes unequal distribution of energy at the soil surface.

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. 42 / Question ID 916 Marks: 4.00

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

List-I	List-II
Specialized part of cell	**Specialized combinations of cell**
(A) Centriole	(I) Infoldings in mitochondria
(B) Chlorophyll	(II) Thylakoids
(C) Cristae	(III) Nucleic acids
(D) Ribozymes	(IV) Basal body cilia or flagella

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

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

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 43 / Question ID 976 Marks: 4.00

When Δ (delta) is in cm, B (base period) is in days and D is in ha cumec^{-1}

1. $\Delta = \frac{864\,B}{D}(cm)$
2. $\Delta = \frac{864\,D}{B}(cm)$
3. $\Delta = \frac{8640\,B}{D}(cm)$
4. $\Delta = \frac{86.4\,B}{D}(cm)$

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 44 / Question ID 954 Marks: 4.00

Which among the following is the temperate grass ?

1. White and red clover
2. Napier grass
3. Setaria grass
4. Guinea grass

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 45 / Question ID 992 Marks: 4.00

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

Assertion (A) : Sulphur deficiencies first appear on the younger growth in the plants.

Reason (R) : Sulphur is mobile in the plants, thereby, fading the normal green colour of the young leaves.

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. 46 / Question ID 963 Marks: 4.00

Match **herbicides** with their **first use/testing or synthesis**

Herbicide	First synthesis/use/testing
(A) Glyphosate	(I) 1995
(B) 2, 4-D	(II) 1971
(C) Diclosulam	(III) 1958
(D) Atrazine	(IV) 1944

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 47 / Question ID 929 Marks: 4.00

The region of atmosphere having the constant temperature is

1. Troposphere
2. Mesopause
3. Stratosphere
4. Ionosphere

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 48 / Question ID 961 Marks: 4.00

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

1. Aryloxy alkanoic acids
2. Arylcarboxylic acids
3. Thiocarbamates
4. Dinitroanilines

○ 1
○ 2
○ 3

○ 4

Question No. 49 / Question ID 960 Marks: 4.00

Given below are two statements:

Statement (I) : Management means to maintain weed population below a threshold level, however, control remains implicit in management.

Statement (II) : Integrated weed management (IWM) necessarily embraces that a combination of the methods of weed control rather than a single method be exercised for management of weeds below a threshold population.

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. 50 / Question ID 1017 Marks: 4.00

Given below are two statements:

Statement (I) : A key component of conservation agriculture is soil tillage connected to zero tillage, reduced tillage and ridge tillage.

Statement (II) : Improved crop yields are one benefit of the innovation known as zero tillage especially in rice-wheat system due to timely seeding of wheat.

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 (Chosen Option)
○ 4

Question No. 51 / Question ID 972 Marks: 4.00

Given below are two statements:

Statement (I) : According to USDA estimates, the total amount of water on earth is about 1400 billion cubic kilometers

Statement (II) : This amount of water is enough to cover the earth with a layer of 300 meters (depth)

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 (Chosen Option)
○ 4

Question No. 52 / Question ID 923 Marks: 4.00

Which of the following statements is correct ?

1. One cm of rainfall is the equivalent of one liter of water per square meter.
2. One millimeter of rainfall is the equivalent of 10 liter of water per square meter.
3. One millimeter of rainfall is the equivalent of one liter of water per square meter.
4. One cm of rainfall is the equivalent of 10 liter of water per square meter.

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 53 / Question ID 977 Marks: 4.00

Given below are two statements:

Statement (I) : The sum of matric and osmotic potential is called 'hydraulic head' which is useful index for characterizing the energy status of soil-water with respect to plant-water uptake

Statement (II) : Hydraulic potential is useful in evaluating the direction and intensity of water moving forces in the soil profile.

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. 54 / Question ID 918 Marks: 4.00

Vegetable crops like tomatoes and bell pepper, allowed growing in a carbon dioxide rich environment, showed higher yields because :

1. C pathway for carbon fixation at high carbon dioxide is the limiting factor in such plants.
2. These showed an increased rate of photosynthesis at higher carbon dioxide concentrations.
3. These can respond to high carbon dioxide conditions even in low light conditions.
4. Only carbon dioxide is the limiting factor in such plants.

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 55 / Question ID 1005 Marks: 4.00

Relationship between plant population and yield in fodder crops is

1. Asymptotic
2. Linear
3. Parabolic
4. Exponential

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

Question No. 56 / Question ID 1010 Marks: 4.00

Which endogenous harmone increases under drought conditions?

1. Auxins
2. Gibbrelic acid
3. Abscisic acid
4. Cytokinin

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

Question No. 57 / Question ID 937 Marks: 4.00

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

Assertion (A) : Zero-tillage practice in rice-wheat cropping system is a climate change adaptation strategy.

Reason (R) : It helps to avoid terminal heat stress of wheat.

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. 58 / Question ID 945 Marks: 4.00

Using the following types of water erosion, find which order is the correct one.

(A) Splash erosion

(B) Sheet erosion

(C) Rill erosion

(D) Gully erosion

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

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

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

Question No. 59 / Question ID 997 Marks: 4.00

Prismatic soil structure is a distinct feature in

1. Red soils
2. Black soils
3. Alluvial soils
4. Sodic soils

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

Question No. 60 / Question ID 978 Marks: 4.00

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

Assertion (A) : In a double ring infiltrometer, the double ring avoids requirement of deep insertion into the soil.

Reason (R) : The outer ring provides a buffer of infiltrating water, which leads to force of infiltration below the inner ring to remain completely vertical and unidirectional.

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. 61 / Question ID 967 Marks: 4.00

Suitable nozzles for herbicide spraying

1. Fan and impact type
2. Adjustable nozzles
3. Hollow cone nozzles
4. Tripple action

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

Question No. 62 / Question ID 989 Marks: 4.00

The dominant clay mineral present in Inceptisol is

1. Montmorrilonite
2. Illite
3. Kaolinite
4. Chlorite

- ○ 1
- ○ 2
- ○ 3 (Chosen Option)

○ 4

Question No. 63 / Question ID 925 Marks: 4.00

Given below are two statements:

Statement (I) : In the atmosphere, 90% of the ozone is distributed in the troposphere, while only 10% is confined to the stratosphere

Statement (II) : According to IPCC (2007) estimated value of radiative forcing from the tropospheric ozone is to be 0.35 ± 0.15 W m^{-2}.

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

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

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 64 / Question ID 905 Marks: 4.00

The cystic fibrosis transmembrane conductance regulator (CFTR) is a transporter involved in

1. Glucose transport
2. Chloride ion transport
3. Calcium homeostasis
4. Amino acid uptake

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 65 / Question ID 1006 Marks: 4.00

Protein and oil content of soybean is _____% and _____%, respectively.

1. 43 and 20
2. 35 and 30
3. 30 and 35
4. 20 and 43

○ 1 (Chosen Option)
○ 2

○ 3
○ 4

Question No. 66 / Question ID 1012 Marks: 4.00

The functions of zinc are:

(A) It is involved in the synthesis of indole acetic acid, metabolism of gibberellic acid and synthesis of RNA.

(B) It is a constituent of enzymes such as carbonic anhydrase (CA), alcoholic dehydrogenase and superoxide dismutase (SOD).

(C) Because of its preferential binding to sulphydryl group, Zn plays an important role in the stabilization and structural orientation of the membrane proteins.

(D) It influences translocation and transportation of P in plants. Under Zn-deficiency, poor translocation of P occurs, resulting in P-deficiency.

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

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 67 / Question ID 928 Marks: 4.00

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

List-I	**List-II**
(Types of ecology)	**(Explanation)**
(A) Ecosystem ecology	(I) The units of study are interactions between different communities of area.
(B) Community ecology	(II) The units of study are pure stands of individuals of a single species.
(C) Biome ecology	(III) The units of study are groups of individuals belonging to different species of plants as well as animals.
(D) Population ecology	(IV) The most complicated synecological approach to the ecology of an area.

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

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 68 / Question ID 1004 Marks: 4.00

Correct sequence of herbicide resistant cases in following crops :

1. Rice>wheat>maize>soybean
2. Wheat>rice>soybean>maize
3. Wheat>maize>rice>soybean
4. Rice>maize>wheat>soybean

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 69 / Question ID 924 Marks: 4.00

Particles that are not used for cloud seeding in artificial rain making is

1. Silver iodide
2. Dry ice
3. Common salt
4. Kaolinite

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

Question No. 70 / Question ID 953 Marks: 4.00

The oil content in sunflower is

1. 10-20%
2. 20-35%
3. 35-45%
4. 45-60%

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

Question No. 71 / Question ID 926 Marks: 4.00

Full form of NISAR satellite is

1. National Indian Satellite for Agricultural Research
2. NASA ISRO Satellite for Agricultural Research
3. NASA ISRO Synthetic Aperture Radar
4. NASA ISRO Synchronised Agricultural Radar

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

Question No. 72 / Question ID 1007 Marks: 4.00

The interaction between legume and non-legume plants in the form of supplementation is called as :

1. Annidation
2. Allelopathic
3. Antagonism
4. Supplementary

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 73 / Question ID 952 Marks: 4.00

Mentha crop is commercially raised through

1. Seed
2. Root cutting
3. Stolons
4. Leaflets

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 74 / Question ID 986 Marks: 4.00

The Law which states that whatever is being taken by plants from soil needs to be restored to maintain the nutrient supplying capacity of the soil is called "Law of Restitution" and it is propounded by:

1. Justus von Liebig (1840)
2. Hilgard (1888)
3. J.B. Boussingault (1802-1882)
4. E.W. Hilgard (1833-1916)

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 75 / Question ID 981 Marks: 4.00

If electrical conductivity of a saturation extract of the soil is 11 dS/m, what will be the electrical conductivity (dS/m) of drainage water?

1. 0.11
2. 1.1
3. 5.5
4. 22

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 76 / Question ID 968 Marks: 4.00

A weed of both cropped and non cropped lands

1. *Urena lobata*
2. *Urtica dioca*
3. *Ageratum* sp
4. *Solanum xanthocarpum*

○ 1
○ 2
○ 3
○ 4

Question No. 77 / Question ID 969 Marks: 4.00

A selective post-emergence herbicide used for weed control in rice is

1. Pretilachlor
2. Butachlor
3. Bispyribac Sodium
4. Tembotrione

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 78 / Question ID 990 Marks: 4.00

The diameter of fine particle in sand fraction according to USDA is:

1. 0.25-0.10 mm
2. 0.50-0.25 mm
3. 0.05-0.002 mm
4. 2.00 -1.00 mm

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 79 / Question ID 911 Marks: 4.00

The amino acid considered as a branched-chain amino acid (BCAA) is

1. Serine
2. Leucine
3. Asparagine
4. Tyrosine

○ 1
○ 2
○ 3
○ 4

Question No. 80 / Question ID 996 Marks: 4.00

Monoammonium phosphate is produced by reaction of ammonia with

1. Phosphoric acid
2. Nitric acid
3. Sulphuric acid
4. Hydrochloric acid

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 81 / Question ID 920 Marks: 4.00

The product of photorespiration process is

1. Phosphoglycerate
2. Phosphoglycolate
3. Both A and B
4. Oxalo Acetic Acid

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

Question No. 82 / Question ID 922 Marks: 4.00

Which of the following clouds is a rain bearing cloud?

1. Nimbostratus
2. Altocumulus
3. Cirrostratus
4. Stratocumulus

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

Question No. 83 / Question ID 1019 Marks: 4.00

Tree Crops: A Permanent Agriculture is written by

1. Charles C. Harrison
2. Edgar F. Smith
3. Josiah H. Penniman
4. J. Russel Smith

- 1
- 2
- 3
- 4

Question No. 84 / Question ID 993 Marks: 4.00

Phosphorus (P) is an important essential nutrient.

(A) Plant roots absorb P in the $H_2PO_4^-$ form, but under neutral to alkaline environments, HPO_4^{2-} and or PO_4^{3-} ions could also be taken up.

(B) In normal P-sufficient plants, P-content varies from 0.1% to 0.4% by weight.

(C) It is an essential ingredient for *Rhizobium* bacteria to convert atmospheric N (N_2) into the ammonium (NH_4) form usable by plant.

(D) Because of being immobile in plants, first signs of its deficiency appear on the older leaves.

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 85 / Question ID 902 Marks: 4.00

Match **List-I** with **List-II** (Choose the correct answer from the options given below:)

List-I	**List-II**
Instrument	**Parameter**
(A) Wind vane	(I) Photosynthetically active radiation
(B) Quantum sensor	(II) Wind speed
(C) Anemometer	(III) Atmospheric pressure
(D) Barometer	(IV) Wind direction

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

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

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

Question No. 86 / Question ID 1015 Marks: 4.00

Given below are two statements:

Statement (I) : Molybdenum is a component of nitrate reductase, nitrogenase, xanthine oxidase/dehydrogenase and sulphite oxidase.

Statement (II) : The critical concentration of molybdenum-deficiency in plants is usually more than 0.1 ppm and its deficiencies resemble the N-deficiencies.

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. 87 / Question ID 903 Marks: 4.00

If it is said that wind is blowing from 360°, then what is its meaning?

1. Wind is not blowing
2. Wind is blowing from south direction
3. Wind is blowing from true north direction
4. Wind is blowing from magnetic south direction

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

Question No. 88 / Question ID 1013 Marks: 4.00

What will be the porosity when a soil have its bulk density and particle density of 1.50 mg/m^3 and 2.65 mg/m^3, respectively ?

1. 44.4%
2. 43.4%
3. 45.3%
4. 46.3%

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 89 / Question ID 948 Marks: 4.00

Drought avoidance mechanism is found in which of the following crops?

1. Barley
2. Maize
3. Sorghum
4. Sunflower

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 90 / Question ID 957 Marks: 4.00

Commelina benghalensis bearing blue coloured short-lived flowers is a _____.

1. Pteridophyta
2. Spermatophyta
3. Dicot
4. Monocot

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 91 / Question ID 935 Marks: 4.00

Which of the following statements are correct for "Dryland agriculture"?

(A) Growing season in dryland agriculture is < 300 days.

(B) Rainfall should be < 1800 mm.

(C) Main constraints are wind and water erosion.

(D) Growing regions are mainly humid and tropical as well as uplands.

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

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

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 92 / Question ID 985 Marks: 4.00

Read the statements about irrigation management in chickpea

(A) Flowering and pod filling are the most critical stages for irrigation.

(B) Water requirement of chickpea ranges from 400–600 mm.

(C) Irrigating chickpea with saline water that has salinity of 10 mmhos/cm can reduce yield by about 55%.

(D) Chickpea is usually irrigated following check basin method.

(E) Under conditions of low evaporative demand as in North India, irrigation can cause lodging in chickpea.

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

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

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 93 / Question ID 940 Marks: 4.00

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

Assertion (A) : The Net Assimilation Rate (NAR) is a measure of the average photosynthetic efficiency of leaves in a crop community.

Reason (R) : It is highest when the plants are small and most of the leaves are exposed to sun light.

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. 94 / Question ID 1009 Marks: 4.00

Which one is not the correct ideotype for dryland farming?

1. Thick leaves
2. Shallow root system
3. Leaves horizontally oriented
4. High water requirement

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 95 / Question ID 917 Marks: 4.00

Select out of the following the correct statement regarding cell membrane

1. Na and K ions move across cell membrane by passive transport.
2. Proteins make up 60 to 70% of the cell membrane.
3. Fluid mosaic model of cell membrane was proposed by Singer and Nicolson.
4. Lipids are arranged in a bilayer with polar heads towards the inner part.

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 96 / Question ID 998 Marks: 4.00

Soil extractants used for available nutrients:

(A) 2 M KCL extract is used for determination of mineral N (NH_4 and NO_3) using soil: solution ratio of 1:10.

(B) DTPA extractant (pH 7.5) is used for determination of micronutrients using soil: solution ratio of 1:20.

(C) Ammonium acetate (1 N) solution is used for determination of potassium using soil: solution ratio of 1:5.

(D) Olsen reagent (0.5 M $NaHCO_3$, pH 8.5) is used for determination of available P in soil using soil: solution ratio of 1:20.

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

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 97 / Question ID 904 Marks: 4.00

The complex which is specifically inhibited by SHAM in the electron transport chain

1. Complex I
2. Complex II
3. Complex III
4. Complex IV

○ 1
○ 2
○ 3
○ 4

Question No. 98 / Question ID 995 Marks: 4.00

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

Theory proposed	**Thinker/Name of Theory, etc.)**
(A) Root interception	(I) Bray, R.H. (1954)
(B) Law of diffusion	(II) Cate and Nelson (1965)
(C) Mobility concept	(III) Jenny and Overstrect (1939)
(D) Critical limit	(IV) Fick's (1885)

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

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

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

Question No. 99 / Question ID 973 Marks: 4.00

Correct order, in decreasing trend, of principal components of India's water budget

1. Potential flow in rivers > Precipitation >Natural recharge > Evapotranspiration
2. Precipitation > Evapotranspiration < Potential flow in rivers > Natural recharge
3. Potential flow in rivers > Precipitation > Evapotranspiration > Natural recharge
4. Precipitation > Potential flow in rivers > Evapotranspiration > Natural recharge

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

Question No. 100 / Question ID 1000 Marks: 4.00

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

List-I (Book/Theory proposed/ Characteristic, etc.)	**List-II** (Author/Thinker/ Name of Theory, etc.)
(A) Khaira disease	(I) Molybdenum
(B) Whiptail symptom	(II) Zinc
(C) Hollow-heart in groundnut	(III) Manganese
(D) Grey speck in cereals	(IV) Boron

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 101 / Question ID 946 Marks: 4.00

The physical basis of precision farming is

1. Input quality
2. Variable rate technology
3. Field variability
4. Site-specific output

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 102 / Question ID 927 Marks: 4.00

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

List-I (Fact /feature/event/ phenomena)	**List-II** (Definition)
(A) Ecotype	(I) A uniform interbreeding population spread over time and space.
(B) Ecotone	(II) It is a group of individual organisms of the same species in a given area.
(C) Species	(III) It is a population of individuals of a species, which are genetically different.
(D) Population	(IV) A zone of transition, presenting a situation of special ecological interest between two different types of communities.

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

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

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 103 / Question ID 938 Marks: 4.00

What is the optimum range of soil moisture for effective ploughing?

1. 5 to 10 per cent depletion of available soil moisture
2. 15 to 20 per cent depletion of available soil moisture
3. 25 to 50 per cent depletion of available soil moisture
4. 50 to 60 per cent depletion of available soil moisture

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 104 / Question ID 936 Marks: 4.00

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

List-I	**List-II**
(Plant hormones)	**(Major function)**
(A) Auxins	(I) Induces leaf and fruit abscission
(B) Cytokinin	(II) Elongation of cells
(C) Abscisic acid	(III) Stimulates the swelling of stems and roots
(D) Ethylene	(IV) Stimulate cell division

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

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 105 / Question ID 994 Marks: 4.00

As per critical relative humidity (CRH), the most hygroscopic fertilizer is

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

○ 1
○ 2
○ 3
○ 4 (Chosen Option)

Question No. 106 / Question ID 984 Marks: 4.00

According to Kung (1971) water requirement to raise nursery for 1 ha irrigated rice crop is

1. 40 mm
2. 40 cm
3. 10 cm
4. 200 mm

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

Question No. 107 / Question ID 979 Marks: 4.00

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

List-I	List-II
Instrument	**Parameter measurement**
(A) Gypsum blocks	(I) Water flow
(B) Flume	(II) Soil moisture suction
(C) Infra-red balance	(III) Di-electric constant
(D) Irrometer	(IV) Electric resistance
(E) TDR	(V) Gravimetric moisture content

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

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

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

Question No. 108 / Question ID 913 Marks: 4.00

The deficiency symptoms of an essential element tend to appear first in young leaves indicating that the element is relatively immobile. Such symptoms would be shown by which one of the following elemental deficiencies?

1. Sulphur
2. Iron
3. Nitrogen
4. Potassium

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

Question No. 109 / Question ID 908 Marks: 4.00

The technique used to study the spatial distribution of nutrients in plant tissues at a cellular level is ?

1. Immunohistochemistry
2. Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)
3. Metabolomics
4. RNA-sequencing (RNA-seq)

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 110 / Question ID 1008 Marks: 4.00

If a soil sample contains 20% moisture, calculate the specific heat of this soil (specific heat of water and soil is 1.0 and 0.2, respectively).

1. 0.44 cal/kg
2. 0.44 cal/g
3. 0.33 cal/kg
4. 0.33 cal/g

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 111 / Question ID 906 Marks: 4.00

Given below are two statements:

Statement I : Minimum, optimum and maximum temperatures for germination of rice crop are 10-12°C, 30-32°C and 36-38°C, respectively.

Statement II : Minimum, optimum and maximum temperatures for germination of wheat crop are 3-4.5°C, 20-25°C and 30-40°C, respectively.

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

1. Both **Statement I** and **Statement II** are correct
2. Both **Statement I** and **Statement II** are not correct
3. **Statement I** is correct but **Statement II** is not correct
4. **Statement I** is not correct but **Statement II** is correct

○ 1 (Chosen Option)
○ 2

○ 3
○ 4

Question No. 112 / Question ID 901 Marks: 4.00

The term used for the growth of terrestrial plants without soil in mineral nutrient solutions is

1. Nutrient culture
2. Aquaculture
3. Soilless culture
4. Solution culture

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 113 / Question ID 951 Marks: 4.00

Hyrbid rice for commercial production was first evolved in

1. India
2. China
3. Japan
4. USA

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 114 / Question ID 1016 Marks: 4.00

The physical process of soil degradation :

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

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 115 / Question ID 1011 Marks: 4.00

If the weight of soil is 1.0 g, amount of potassium dichromate (1 N) is 10 ml, volume of ferrous ammonium sulphate (0.5 N) solution required for blank titration is 20.1 ml and volume of ferrous ammonium sulphate (0.5 N) solution required for soil sample titration is 17.4 ml, then the organic carbon content (%) in soil will be:

1. 0.47%
2. 0.57%
3. 0.37%
4. 0.67%

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 116 / Question ID 934 Marks: 4.00

Calculate cumulative evaporation required for scheduling irrigation at 0.5 IW / CPE ratio with 5 cm of irrigation water?

1. 5 cm
2. 10 cm
3. 15 cm
4. 20 cm

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 117 / Question ID 919 Marks: 4.00

Photorespiration does not take place in C_4 plants because such plants

1. Do not contain fixation enzyme RUBISCO
2. Have cells that are impermeable to oxygen
3. Have mechanism that increases the concentration of CO_2 at the enzyme site
4. Cells do not allow oxygen to accumulate in them

○ 1
○ 2
○ 3 (Chosen Option)
○ 4

Question No. 118 / Question ID 980 Marks: 4.00

A 4% salt concentration is equal to how many ppm?

1. 40000
2. 4000
3. 400
4. 40

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

Question No. 119 / Question ID 965 Marks: 4.00

In India, herbicie resistance was first reported in _____.

1. *Echinochloa colona*
2. *Phalaris minor*
3. *Ageratum houstonianum*
4. *Chenopodium album*

○ 1
○ 2 (Chosen Option)
○ 3
○ 4

Question No. 120 / Question ID 988 Marks: 4.00

Secondary tillage is done primarily

1. To prepare root bed
2. To break hard pan
3. To prepare a fine tilth seed bed
4. To preserve soil structure

○ 1 (Chosen Option)
○ 2
○ 3
○ 4

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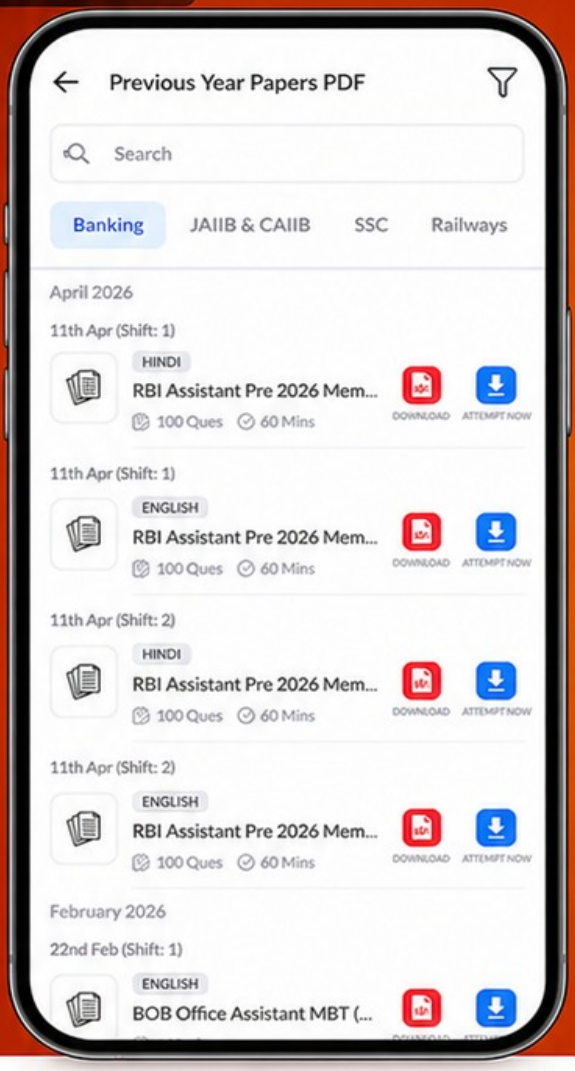

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Final Answer Key

Exam Date : 09.07.2023 Shift : FIRST

Subject : PG - AGRONOMY (5)

Question ID	Correct Option	Question ID	Correct Option	Question ID	Correct Option
1000	2	935	2	990	1
1001	1	936	1	991	1
1002	3	937	3	992	3
1003	Dropped	938	3	993	1
1004	3	939	4	994	3
1005	1	940	2	995	1
1006	1	941	3	996	1
1007	1	942	4	997	4
1008	4	943	2	998	4
1009	2&4	944	3	999	3
1010	3	945	1		
1011	1	946	3		
1012	3	947	3		
1013	2	948	3		
1014	2	949	1		
1015	3	950	3		
1016	3	951	2		
1017	1	952	3		
1018	4	953	3		
1019	4	954	1		
1020	2	955	3		
901	3&4	956	3		
902	1	957	4		
903	3	958	4		
904	3	959	4		
905	3	960	1		
906	3	961	2		
907	1	962	4		
908	3	963	2		
909	1	964	3		
910	4	965	2		
911	2	966	4		
912	4	967	1		
913	1&2	968	3		
914	1	969	3		
915	3	970	2		
916	1	971	2		
917	3	972	2		
918	2	973	4		
919	3	974	2		
920	3	975	3		
921	4	976	1		
922	1	977	4		
923	3&4	978	1		
924	4	979	4		
925	4	980	1		
926	3	981	4		
927	2	982	3		
928	4	983	2		
929	2	984	1		
930	4	985	4		
931	3	986	1		
932	3	987	4		
933	3	988	3		
934	2	989	2		