

PREVIEW QUESTION BANK

Module Name : AGRONOMY-ENG
Exam Date : 09-Jul-2023 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	901	<p>The term used for the growth of terrestrial plants without soil in mineral nutrient solutions is</p> <ol style="list-style-type: none"> 1. Nutrient culture 2. Aquaculture 3. Soilless culture 4. Solution culture <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p>	4.0	1.00

Objective Question																
2	902	<p>Match List-I with List-II (Choose the correct answer from the options given below:)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">List-I</th> <th style="width: 50%; text-align: center;">List-II</th> </tr> <tr> <th style="text-align: center;">Instrument</th> <th style="text-align: center;">Parameter</th> </tr> </thead> <tbody> <tr> <td>(A) Wind vane</td> <td>(I) Photosynthetically active radiation</td> </tr> <tr> <td>(B) Quantum sensor</td> <td>(II) Wind speed</td> </tr> <tr> <td>(C) Anemometer</td> <td>(III) Atmospheric pressure</td> </tr> <tr> <td>(D) Barometer</td> <td>(IV) Wind direction</td> </tr> </tbody> </table> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 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) <p>A1 : 1 A2 : 2 A3 : 3</p>	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	4.0	1.00
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															

A4 : 4

Objective Question

3	903	<p>If it is said that wind is blowing from 360°, then what is its meaning?</p> <ol style="list-style-type: none"> 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 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

4	904	<p>The complex which is specifically inhibited by SHAM in the electron transport chain</p> <ol style="list-style-type: none"> 1. Complex I 2. Complex II 3. Complex III 4. Complex IV 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

5	905	<p>The cystic fibrosis transmembrane conductance regulator (CFTR) is a transporter involved in</p> <ol style="list-style-type: none"> 1. Glucose transport 2. Chloride ion transport 3. Calcium homeostasis 4. Amino acid uptake 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		

A4 : 4

Objective Question

6	906	<p>Given below are two statements:</p> <p>Statement I : Minimum, optimum and maximum temperatures for germination of rice crop are 10-12°C, 30-32°C and 36-38°C, respectively.</p> <p>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.</p> <p>In the light of the above statements, choose the <i>correct</i> answer from the options given below</p> <ol style="list-style-type: none"> Both Statement I and Statement II are correct Both Statement I and Statement II are not correct Statement I is correct but Statement II is not correct Statement I is not correct but Statement II is correct <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

7	907	<p>The transcription factor SNAC1 (Stress-responsive NAC1) is involved in drought stress response in which of the following crop plants ?</p> <ol style="list-style-type: none"> <i>Sorghum bicolor</i> (sorghum) <i>Phaseolus vulgaris</i> (common bean) <i>Brassica napus</i> (rapeseed) <i>Musa spp</i> (banana) <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

8	908		4.0	1.00
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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)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 909

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

10 910

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

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

11	911	<p>The amino acid considered as a branched-chain amino acid (BCAA) is</p> <ol style="list-style-type: none"> 1. Serine 2. Leucine 3. Asparagine 4. Tyrosine 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

12	912	<p>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?</p> <ol style="list-style-type: none"> 1. Co, Ni and Mo 2. Ca, K and Na 3. Mn, Co and Ca 4. Cu, Mn and Fe 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

13	913	<p>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?</p> <ol style="list-style-type: none"> 1. Sulphur 2. Iron 3. Nitrogen 4. Potassium 	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

14 914

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

15 915

During translocation of photosynthates in 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 photosynthates 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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

16 916

4.0 1.00

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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

17 917

Select out of the following the correct statement regarding cell membrane

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

18 918

4.0 1.00

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

19 919

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

20 920

The product of photorespiration process is

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

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

A4 : 4

Objective Question

21	921	<p>The country that has given name of the tropical cyclone “Mocha” developed in the month of May, 2023 in Bay of Bengal is</p> <ol style="list-style-type: none"> 1. Bangladesh 2. Pakistan 3. India 4. Yemen 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

22	922	<p>Which of the following clouds is a rain bearing cloud?</p> <ol style="list-style-type: none"> 1. Nimbostratus 2. Altocumulus 3. Cirrostratus 4. Stratocumulus 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

23	923	<p>Which of the following statements is correct ?</p> <ol style="list-style-type: none"> 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. 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		

A4 : 4

Objective Question

24	924	<p>Particles that are not used for cloud seeding in artificial rain making is</p> <ol style="list-style-type: none"> 1. Silver iodide 2. Dry ice 3. Common salt 4. Kaolinite 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

25	925	<p>Given below are two statements:</p> <p>Statement (I) : In the atmosphere, 90% of the ozone is distributed in the troposphere, while only 10% is confined to the stratosphere</p> <p>Statement (II) : According to IPCC (2007) estimated value of radiative forcing from the tropospheric ozone is to be $0.35 \pm 0.15 \text{ W m}^{-2}$.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 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. 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

26	926		4.0	1.00
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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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 927

4.0 1.00

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

List-I	List-II
(Fact /feature/event/ phenomena)	(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)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question



28 928

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

4.0 1.00

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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29 929

The region of atmosphere having the constant temperature is

4.0 1.00

- Troposphere
- Mesopause
- Stratosphere
- Ionosphere

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30 930

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 931

4.0 1.00

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

List-I	List-II
(CGIAR centers.)	(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)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32 932

4.0 1.00

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

33 933

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

34 934

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35 935

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

36 936

4.0 1.00

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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

37 937

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.

- Both (A) and (R) are true and (R) is the correct explanation of (A).
- Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (A) is true but (R) is false.
- (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

38	938	<p>What is the optimum range of soil moisture for effective ploughing?</p> <ol style="list-style-type: none"> 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 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

39	939	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Ridging increases albedo, thereby increasing the effective incoming radiation compared to a flat surface.</p> <p>Reason (R) : Tillage causes unequal distribution of energy at the soil surface.</p> <p>In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> 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. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

40	940		4.0	1.00
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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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

41 941

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

42 942

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

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

4.0 1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43 943

Area of the micro-watershed is

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

44 944

Type of soil water available for normal crop growth

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

45 945

4.0 1.00

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).

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46 946

The physical basis of precision farming is

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

47 947

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

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

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

48	948	<p>Drought avoidance mechanism is found in which of the following crops?</p> <ol style="list-style-type: none"> 1. Barley 2. Maize 3. Sorghum 4. Sunflower 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

49	949	<p>Planting geometry that ensures a uniform incidence of solar radiation</p> <ol style="list-style-type: none"> 1. Square planting 2. Rectangular planting 3. Mixed planting 4. Random planting 	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

50	950	<p>The Kufri Bahar is a prominent variety of</p> <ol style="list-style-type: none"> 1. Sunflower 2. Cotton 3. Potato 4. Tobacco 	4.0	1.00
		A1 : 1		
		A2 : 2		

A3 : 3

A4 : 4

Objective Question

51 951

Hyrbid rice for commercial production was first evolved in

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

52 952

Mentha crop is commercially raised through

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

53 953

The oil content in sunflower is

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

A1 : 1

A2 : 2

A3 : 3

4.0

1.00

A4 : 4

Objective Question

54 954

Which among the following is the temperate grass ?

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

55 955

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

56 956

Weed seed dispersal by ants is called as

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

A1 : 1

A2 : 2

4.0

1.00

A3 : 3

A4 : 4

Objective Question

57 957

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

58 958

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

59 959

4.0 1.00

Which among the following is an ephemeral weed?

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

60 960

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

61 961

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

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

A1 : 1

4.0 1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

62 962

Inhibitors of photosynthesis at photosystem I.

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

63 963

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)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

64	964	<p>Given below are two statements:</p> <p>Statement (I) : Three types of adjuvants used with herbicides are activator, spray modifier and utility.</p> <p>Statement (II) : Activator adjuvants are a part of the formulation.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> Both Statement (I) and Statement (II) are correct. Both Statement (I) and Statement (II) are incorrect. Statement (I) is correct but Statement (II) is incorrect. Statement (I) is incorrect but Statement (II) is correct. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

65	965	<p>In India, herbicide resistance was first reported in _____.</p> <ol style="list-style-type: none"> <i>Echinochloa colona</i> <i>Phalaris minor</i> <i>Ageratum houstonianum</i> <i>Chenopodium album</i> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

66	966	<p>Which of the following herbicides is highly volatile?</p> <ol style="list-style-type: none"> Pendimethalin Atrazine Ethalfluralin EPTC <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

67 967

Suitable nozzles for herbicide spraying

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

68 968

A weed of both cropped and non cropped lands

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

69 969

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

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

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

70 970

4.0 1.00

Match **Cultural practices** 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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

71 971

4.0 1.00

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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72 972

4.0 1.00

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.

- Both **Statement (I)** and **Statement (II)** are true.
- Both **Statement (I)** and **Statement (II)** are false.
- Statement (I)** is true but **Statement (II)** is false.
- Statement (I)** is false but **Statement (II)** is true.

A1 : 1

A2 : 2

A3 : 3



A4 : 4

Objective Question

73 973

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

74 974

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

75 975

4.0 1.00



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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

76 976

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. $\Delta = \frac{86.4 B}{D} (cm)$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

77 977

4.0 1.00

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78 978

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00



Objective Question

79 979

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) Irrrometer	(IV) Electric resistance
(E) TDR	(V) Gravimetric moisture content

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

80 980

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

- 40000
- 4000
- 400
- 40

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

81 981

4.0 1.00

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82 982

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

83 983

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

84	984	<p>According to Kung (1971) water requirement to raise nursery for 1 ha irrigated rice crop is</p> <ol style="list-style-type: none"> 1. 40 mm 2. 40 cm 3. 10 cm 4. 200 mm <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

85	985	<p>Read the statements about irrigation management in chickpea</p> <p>(A) Flowering and pod filling are the most critical stages for irrigation.</p> <p>(B) Water requirement of chickpea ranges from 400–600 mm.</p> <p>(C) Irrigating chickpea with saline water that has salinity of 10 mmhos/cm can reduce yield by about 55%.</p> <p>(D) Chickpea is usually irrigated following check basin method.</p> <p>(E) Under conditions of low evaporative demand as in North India, irrigation can cause lodging in chickpea.</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (E) only 2. (A), (B) and (D) only 3. (B), (C) and (E) only 4. (C), (D) and (E) only <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

86	986		4.0	1.00
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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)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87 987

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

88 988

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

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

A4 : 4

Objective Question

89 989

The dominant clay mineral present in Inceptisol is

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

90 990

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

91 991

4.0

1.00

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92 992

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00



Objective Question

93	993	<p>Phosphorus (P) is an important essential nutrient.</p> <p>(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.</p> <p>(B) In normal P-sufficient plants, P-content varies from 0.1% to 0.4% by weight.</p> <p>(C) It is an essential ingredient for <i>Rhizobium</i> bacteria to convert atmospheric N (N_2) into the ammonium (NH_4) form usable by plant.</p> <p>(D) Because of being immobile in plants, first signs of its deficiency appear on the older leaves.</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> (A), (B) and (C) only. (A), (B) and (D) only. (B), (C) and (D) only. (A), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

94	994	<p>As per critical relative humidity (CRH), the most hygroscopic fertilizer is</p> <ol style="list-style-type: none"> Ammonium sulphate Urea ammonium sulphate Ammonium nitrate Ammonium chloride <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

95	995		4.0	1.00
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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 Overstreet (1939)
(D) Critical limit	(IV) Fick's (1885)

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

96 996

Monoammonium phosphate is produced by reaction of ammonia with

- Phosphoric acid
- Nitric acid
- Sulphuric acid
- Hydrochloric acid

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

97 997

Prismatic soil structure is a distinct feature in

- Red soils
- Black soils
- Alluvial soils
- Sodic soils

4.0 1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98 998

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

99 999

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

100 1000

4.0 1.00

Match List-I with List-II

List-I	List-II
(Book/Theory proposed/ Characteristic, etc.)	(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:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101 1001

4.0 1.00

Which one is a minor-millet ?

- Foxtail millet
- Buck wheat
- Sorghum
- Barley

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102 1002

4.0 1.00

The term allelopathy was coined by

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103 1003

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

104 1004

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

105	1005	<p>Relationship between plant population and yield in fodder crops is</p> <ol style="list-style-type: none">1. Asymptotic2. Linear3. Parabolic4. Exponential <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

106	1006	<p>Protein and oil content of soybean is _____% and _____%, respectively.</p> <ol style="list-style-type: none">1. 43 and 202. 35 and 303. 30 and 354. 20 and 43 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

107	1007	<p>The interaction between legume and non-legume plants in the form of supplementation is called as :</p> <ol style="list-style-type: none">1. Annidation2. Allelopathic3. Antagonism4. Supplementary <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

108	1008	<p>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).</p> <ol style="list-style-type: none"> 0.44 cal/kg 0.44 cal/g 0.33 cal/kg 0.33 cal/g <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

109	1009	<p>Which one is not the correct ideotype for dryland farming?</p> <ol style="list-style-type: none"> Thick leaves Shallow root system Leaves horizontally oriented High water requirement <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

110	1010	<p>Which endogenous hormone increases under drought conditions?</p> <ol style="list-style-type: none"> Auxins Gibberlic acid Absciscic acid Cytokinin <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

111	1011	<p>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:</p> <ol style="list-style-type: none"> 1. 0.47% 2. 0.57% 3. 0.37% 4. 0.67% <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

112	1012	<p>The functions of zinc are:</p> <p>(A) It is involved in the synthesis of indole acetic acid, metabolism of gibberellic acid and synthesis of RNA.</p> <p>(B) It is a constituent of enzymes such as carbonic anhydrase (CA), alcoholic dehydrogenase and superoxide dismutase (SOD).</p> <p>(C) Because of its preferential binding to sulphhydryl group, Zn plays an important role in the stabilization and structural orientation of the membrane proteins.</p> <p>(D) It influences translocation and transportation of P in plants. Under Zn-deficiency, poor translocation of P occurs, resulting in P-deficiency.</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

113	1013		4.0	1.00
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What will be the porosity when a soil have its bulk density and particle density of 1.50 mg/m³ and 2.65 mg/m³, respectively ?

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1014

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

115 1015

4.0 1.00

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116	1016	<p>The physical process of soil degradation :</p> <ol style="list-style-type: none"> 1. Fertility imbalance 2. Organic matter decline 3. Erosion and depletion 4. Acidification <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

117	1017		4.0	1.00
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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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118 1018

Biochar produd by incomplete combustion of biological materials is rich in

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

119 1019

Tree Crops: A Permanent Agriculture is written by

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

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

120	1020	<p>Integrated Wasteland Development Programme (IWDP) had been under implementation since</p> <ol style="list-style-type: none">1. 1979-802. 1989-903. 1994-954. 1997-98	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		