

## PREVIEW QUESTION BANK

Module Name : AGRONOMY-ENG  
Exam Date : 14-Jul-2023 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	801	<p>Most abundant gas in our atmosphere that plants cannot utilize directly in its atmospheric form and is captured by certain bacteria that live symbiotically in the nodules of roots</p> <ol style="list-style-type: none"> <li>1. Oxygen</li> <li>2. Nitrogen</li> <li>3. Neon</li> <li>4. Hydrogen</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
2	802	<p>Nitrogenase</p> <ol style="list-style-type: none"> <li>1. Is insensitive to oxygen</li> <li>2. Contains magnesium</li> <li>3. Releases two NH<sub>3</sub> molecules as products</li> <li>4. Requires an aerobic environment</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
3	803	<p>The golgi complex plays a major role</p> <ol style="list-style-type: none"> <li>1. In digesting proteins and carbohydrates</li> <li>2. As energy transferring organelles</li> <li>3. In post translational modification of proteins and glycosidation of lipids</li> <li>4. In trapping the light and transforming it into chemical energy</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00

A3 : 3

A4 : 4

## Objective Question

4 804

4.0

1.00

Match the following in correct combinations.

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

5 805

4.0

1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

6 806

4.0

1.00

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

#### Objective Question

7	807	Osmotic expansion of a cell kept in water is chiefly regulated by an organelle	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Mitochondria</li> <li>2. Vacuoles</li> <li>3. Plastids</li> <li>4. Ribosomes</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

#### Objective Question

8	808	Which one of the following is a wrong statement?	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Greenhouse effect is a natural phenomenon.</li> <li>2. Ozone in upper part of atmosphere is harmful to animals</li> <li>3. Eutrophication is a natural phenomenon in freshwater bodies.</li> <li>4. Most of the forest have been lost in tropical areas.</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

9	809		4.0	1.00												
<p><b>Match List-I with List-II</b></p> <table border="1"> <thead> <tr> <th>List-I</th> <th>List-II</th> </tr> <tr> <th>(Cell organelle)</th> <th>(Functions)</th> </tr> </thead> <tbody> <tr> <td>(A). Vacuole</td> <td>(I). Respiration</td> </tr> <tr> <td>(B). Mitochondria</td> <td>(II). Photosynthesis</td> </tr> <tr> <td>(C). Chloroplast</td> <td>(III). Protein synthesis</td> </tr> <tr> <td>(D). Ribosomes</td> <td>(IV). Accumulation of toxic materials</td> </tr> </tbody> </table> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>(A) - (IV), (B) - (I), (C) - (II), (D) - (III)</li> <li>(A) - (I), (B) - (II), (C) - (III), (D) - (IV)</li> <li>(A) - (I), (B) - (II), (C) - (IV), (D) - (III)</li> <li>(A) - (III), (B) - (IV), (C) - (I), (D) - (II)</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>					List-I	List-II	(Cell organelle)	(Functions)	(A). Vacuole	(I). Respiration	(B). Mitochondria	(II). Photosynthesis	(C). Chloroplast	(III). Protein synthesis	(D). Ribosomes	(IV). Accumulation of toxic materials
List-I	List-II															
(Cell organelle)	(Functions)															
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(B). Mitochondria	(II). Photosynthesis															
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(D). Ribosomes	(IV). Accumulation of toxic materials															

## Objective Question

10	810		4.0	1.00
<p>Given below are two statements:</p> <p>Statement (I): The greater is the concentration of water in a system, lower is its kinetic energy or water potential</p> <p>Statement (II): Pure water will have the lowest water potential</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"> <li>Both Statement (I) and Statement (II) are correct.</li> <li>Both Statement (I) and Statement (II) are incorrect.</li> <li>Statement (I) is correct but Statement (II) is incorrect.</li> <li>Statement (I) is incorrect but Statement (II) is correct.</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>				

## Objective Question

11	811		4.0	1.00
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**Match List-I with List-II**

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

**Objective Question**

12 812

4.0 1.00

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

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

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

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

- Both Assertion & Reason are true and the Reason is the correct explanation of the Assertion.
- Both Assertion & Reason are true but the Reason is not the correct explanation of the Assertion.
- Assertion is true statement but Reason is false.
- Both Assertion and Reason are false statements.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

**Objective Question**

13 813

4.0 1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

14	814	<p>Given below are two statements: Statement (I): The direction of movement of water and nutrients in xylem and phloem is unidirectional</p> <p>Statement II: Sucrose is transported from the source to the sink via phloem</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"> <li>1. Both Statement (I) and Statement (II) are true.</li> <li>2. Both Statement (I) and Statement (II) are false.</li> <li>3. Statement (I) is true but Statement (II) is false.</li> <li>4. Statement (I) is false but Statement (II) is true.</li> </ol> <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

15	815	<p>Sugarcane seed sets essentially have buds</p> <ol style="list-style-type: none"> <li>1. 1</li> <li>2. 2</li> <li>3. 3</li> <li>4. 4</li> </ol> <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

16	816	4.0	1.00										
Match List I with List II:													
<table border="1"> <thead> <tr> <th>List - I</th> <th>List - II</th> </tr> </thead> <tbody> <tr> <td>A. Centriole</td> <td>I. Thylakoids</td> </tr> <tr> <td>B. Chlorophyll</td> <td>II. Infoldings in mitochondria</td> </tr> <tr> <td>C. Cristae</td> <td>III. Nucleic acids</td> </tr> <tr> <td>D. Ribozymes</td> <td>IV. Basal body cilia or flagella</td> </tr> </tbody> </table>		List - I	List - II	A. Centriole	I. Thylakoids	B. Chlorophyll	II. Infoldings in mitochondria	C. Cristae	III. Nucleic acids	D. Ribozymes	IV. Basal body cilia or flagella		
List - I	List - II												
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<p>1. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)</p> <p>2. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)</p> <p>3. (A) - (IV), (B) - (II), (C) - (I), (D) - (III)</p> <p>4. (A) - (IV), (B) - (I), (C) - (III), (D) - (II)</p>													
A1 : 1													
A2 : 2													
A3 : 3													
A4 : 4													

## Objective Question

17	817	4.0	1.00
Rotenone is a			
<p>1. Insect hormone</p> <p>2. Natural insecticide</p> <p>3. Bioherbicide</p> <p>4. Natural herbicide</p>			
A1 : 1			
A2 : 2			
A3 : 3			
A4 : 4			

## Objective Question

18	818	4.0	1.00
An enzyme that joins the ends of two strands of nucleic acid is			
<p>1. Polymerase</p> <p>2. Ligase</p> <p>3. Synthetase</p> <p>4. Helicase</p>			
A1 : 1			

A2 : 2

A3 : 3

A4 : 4

## Objective Question

19	819	<p>Zn <sup>+2</sup> is an inorganic activator for enzymes</p> <ol style="list-style-type: none"> <li>1. Carbonic anhydrase</li> <li>2. Phosphatase</li> <li>3. Chymotryps</li> <li>4. Maltase</li> </ol> <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

20	820	<p>Which of the following vitamins serves as a hormone precursor?</p> <ol style="list-style-type: none"> <li>1. Vitamin A</li> <li>2. Vitamin C</li> <li>3. Vitamin D</li> <li>4. Vitamin K</li> </ol> <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

21	821	<p>The instrument used for measuring photosynthetically active radiation (PAR) is</p> <ol style="list-style-type: none"> <li>1. Campbell stroke sun shine recorder</li> <li>2. Pyranometer</li> <li>3. Line quantum sensor</li> <li>4. Pyrhelimeter</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00
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A3 : 3

A4 : 4

## Objective Question

22	822	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The temperature increases in the troposphere from ground to tropopause.</p> <p>Reason (R) : Ozone absorbs ultra violet radiation in the stratosphere and makes it warm.</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"> <li>Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol> <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

23	823	<p>What is the date of vernal equinox in the northern hemisphere ?</p> <ol style="list-style-type: none"> <li>22<sup>nd</sup> December</li> <li>21<sup>st</sup> March</li> <li>21<sup>st</sup> June</li> <li>23<sup>rd</sup> September</li> </ol> <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

24	824	<p>What is the minimum cardinal temperature (<sup>0</sup>C) of maize and wheat?</p> <ol style="list-style-type: none"> <li>5-7 and 1.0 - 2.5</li> <li>10-12 and 5.0 - 5.5</li> <li>8-10 and 3.0 - 4.5</li> <li>12-15 and 5.0 - 5.5</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00
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A3 : 3

A4 : 4

## Objective Question

25	825	<p>Given below are two statements:</p> <p>Statement (I): The greenhouse effect is retention of heat in the lower atmosphere due to absorption and re-radiation by clouds and certain gases</p> <p>Statement (II): Long-wave thermal solar radiation received from the sun passes through the atmosphere with little or no interference and warms the earth's surface.</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"> <li>Both Statement (I) and Statement (II) are correct.</li> <li>Both Statement (I) and Statement (II) are incorrect.</li> <li>Statement (I) is correct but Statement (II) is incorrect.</li> <li>Statement (I) is incorrect but Statement (II) is correct.</li> </ol> <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

26	826	<p>Global warming potential of SF<sub>6</sub> is</p> <ol style="list-style-type: none"> <li>23,500</li> <li>22,500</li> <li>20,500</li> <li>15,500</li> </ol> <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

27	827	<p>At what height, remote sensing satellites are placed above the earth surface?</p> <ol style="list-style-type: none"> <li>800 km</li> <li>1000 km</li> <li>18000 km</li> <li>36000 km</li> </ol>	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

28	828	<p>For how many days in advance, weather forecasts are currently issued by IMD in Gramin Krishi Mausam Sewa (GKMS) Project?</p> <ol style="list-style-type: none"> <li>1. 3 days</li> <li>2. 5 days</li> <li>3. 10 days</li> <li>4. 21 days</li> </ol> <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

29	829	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : A remote sensing system that possesses only a sensor and depends on an external source to irradiate the target to be sensed is called an active remote sensing system.</p> <p>Reason (R) : Synthetic Aperture Radar uses microwave band to estimate soil moisture.</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"> <li>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>3. (A) is true but (R) is false.</li> <li>4. (A) is false but (R) is true.</li> </ol> <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

30	830		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) : A Global Positioning System (GPS) links spatial data with descriptive information about a particular feature on a map.

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

#### Objective Question

31 831

4.0 1.00

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

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

Reason (R) : Approximate particle size of Mie scatterer is 0.1 to 10  $\mu\text{m}$ .

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

32 832

4.0 1.00

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

33	833	Time-series model, cross-section model and panel model are three main statistical methods of	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Stochastic model</li> <li>2. Mechanistic model</li> <li>3. Deterministic model</li> <li>4. Empirical model</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

34	834		4.0	1.00
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Given below are two statements:

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35	835	Over the last 150 years, 2003 was the hottest year with the average temperature being ___ °C higher than normal.	4.0	1.00
		<ol style="list-style-type: none"> <li>1. 0.45</li> <li>2. 0.55</li> <li>3. 0.65</li> <li>4. 0.75</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

36	836	Given below are two statements:	4.0	1.00
		Statement (I): Mycorrhiza soil fungi, solubilizes potassium (K) in soil and makes available to plants on which they live.		
		Statement (II): The mycorrhizae that live inside roots are <i>Phoma</i> and <i>Rizoctonia</i>		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		<ol style="list-style-type: none"> <li>1. Both Statement (I) and Statement (II) are true.</li> <li>2. Both Statement (I) and Statement (II) are false.</li> <li>3. Statement (I) is true but Statement (II) is false.</li> <li>4. Statement (I) is false but Statement (II) is true.</li> </ol>		
		A1 : 1		
		A2 : 2		

A3 : 3

A4 : 4

## Objective Question

37	837	<p>Given below are two statements:</p> <p>Statement (I): In CAM plants the stomata open at day time and a large amount of carbon dioxide is fixed as malic acid which is stored in vacuoles</p> <p>Statement (II): In CAM plants, during night time as the stomata are closed, there is no possibility of carbon di oxide entry</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"> <li>Both Statement (I) and Statement (II) are true.</li> <li>Both Statement (I) and Statement (II) are false.</li> <li>Statement (I) is true but Statement (II) is false.</li> <li>Statement (I) is false but Statement (II) is true.</li> </ol> <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

38	838	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : The water budget in the field is accounting the inputs and outputs of water and also considers the volume of water present in the field.</p> <p>Reason (R) : The main governing factor in field water budget is the stored soil moisture.</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"> <li>Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol> <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	839		4.0	1.00
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Weight of a soil sample with can is 220 g and dry weight with can is 190 g. Weight of empty moisture can is 45 g. Calculate moisture content of soil sample.

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

40	840	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : C4 plants usually do not reach radiation saturation in direct sunlight</p> <p>Reason (R) : C4 plants use high radiation levels more efficiently at low levels than under full sunlight</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"> <li>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>3. (A) is true but (R) is false.</li> <li>4. (A) is false but (R) is true.</li> </ol> <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

41	841	<p>The matric potential of the soil is the result of :</p> <ol style="list-style-type: none"> <li>1. Osmotic action</li> <li>2. Attraction due to ions</li> <li>3. Adsorption due to soil solids</li> <li>4. Attraction due to gravity of earth</li> </ol> <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

42	842	<p>The theoretical range of NDVI is :</p> <ol style="list-style-type: none"><li>1. 0-1</li><li>2. -1 to +1</li><li>3. -1 to 0</li><li>4. 0 to 100</li></ol> <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

43	843	<p>The long duration pulse crop is :</p> <ol style="list-style-type: none"><li>1. Green gram</li><li>2. Black gram</li><li>3. Cowpea</li><li>4. Pigeonpea</li></ol> <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

44	844	<p>The HD-2967 is the prominent variety of :</p> <ol style="list-style-type: none"><li>1. Wheat</li><li>2. Chickpea</li><li>3. Barley</li><li>4. Potato</li></ol> <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

45	845		4.0	1.00
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Seed rate of fodder oats is :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46	846	<p>Stem nodulating green manure crop is :</p> <ol style="list-style-type: none"> <li>1. Sunhemp</li> <li>2. <i>Sesbania aculata</i></li> <li>3. <i>Sesbania rostrata</i></li> <li>4. <i>Tephrosia spp.</i></li> </ol> <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

47	847	<p>Optimum seed rate for a good crop stand of Isabgol is :</p> <ol style="list-style-type: none"> <li>1. 1.0 kg/ha</li> <li>2. 2.0 kg/ha</li> <li>3. 4.0 kg/ha</li> <li>4. 10 kg/ha</li> </ol> <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

48	848		4.0	1.00
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Berseem crop is the native of :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49	849	<p>The disease '<i>Ear cockle</i>' of wheat is caused by :</p> <ol style="list-style-type: none"> <li>1. Fungi</li> <li>2. Bacteria</li> <li>3. Virus</li> <li>4. Nematodes</li> </ol> <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

50	850	<p>Which of the following does not apply to SRI method of paddy cultivation?</p> <ol style="list-style-type: none"> <li>1. Reduced water application</li> <li>2. Reduced plant density</li> <li>3. Increased application of chemical fertilizers</li> <li>4. Reduced age of seedling transplanting</li> </ol> <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

51	851		4.0	1.00
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Cotton fibre is made up of :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

52	852	<p><i>Rhizobium japonicum</i> fixes N in symbiotic relationship with :</p> <ol style="list-style-type: none"> <li>1. Pea group</li> <li>2. Lupin group</li> <li>3. Soybean group</li> <li>4. <i>Phaseolus</i> group</li> </ol> <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

53	853	<p>The specificity between legume host and <i>Rhizobium spp.</i> is governed by :</p> <ol style="list-style-type: none"> <li>1. Flavonoides</li> <li>2. Tryptophan</li> <li>3. Polysaccharides</li> <li>4. Indole acetic acid</li> </ol> <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

54	854		4.0	1.00
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Dehydrogenase activity is a good index of biological activity of soil because it plays a role in :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

55 855 4.0 1.00

Cotton belongs to the family:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56 856 4.0 1.00

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

List-I (Weed)	List-II (Character)
(A). <i>Xanthium strumarium</i>	(I). Sharp spines
(B). <i>Tribulus terrestris</i>	(II). Scarios bracts
(C). <i>Achyranthus aspera</i>	(III). Sticky glands
(D). <i>Boerhavia repens</i>	(IV). Hooks

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

57 857

4.0

1.00

*Argimone mexicana* is an objectionable weed of \_\_\_\_\_.

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

58 858

4.0

1.00

Given below are two statements:

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

59 859

4.0

1.00

Main dispersal agent of Dandelion is \_\_\_\_\_.

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

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

60	860	<p>Given below are two statements: Statement (I): <i>Chicorium intybus</i> is an objectionable weed species in Egyptian clover. Statement (II): Egyptian clover on the ground of their smaller seeds are more vulnerable to have admixture with chicory seeds.</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"> <li>Statement (I) is correct and Statement (II) is the right explanation of Statement (I).</li> <li>Statement (I) is correct but Statement (II) is not the right explanation of Statement (I).</li> <li>Only Statement (I) is correct and Statement (II) is incorrect.</li> <li>Statement (I) is incorrect and Statement (II) is correct.</li> </ol> <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

61	861	<p>Which of the following groups of herbicides, oxyflourfen belongs to?</p> <ol style="list-style-type: none"> <li>Diphenyl ethers</li> <li>Nitriles</li> <li>Bipyridilliums</li> <li>Oximes</li> </ol> <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

62	862	<p>Inhibitors of photosynthesis at photosystem II</p> <ol style="list-style-type: none"> <li>Thiocarbamates</li> <li>Ureas</li> <li>Glycines</li> <li>Benzoic acids</li> </ol>	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

63	863	<p>Arrange herbicides in ascending order with respect to their first synthesis</p> <p>(A). Paraquat</p> <p>(B). Pretilachlor</p> <p>(C). Pendimethalin</p> <p>(D). Simazine</p> <p>(E). Sulfosulfuron</p> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>(D), (A), (C), (B), (E).</li> <li>(B), (D), (E), (A), (C).</li> <li>(D), (B), (E), (C), (A).</li> <li>(E), (A), (D), (B), (C).</li> </ol> <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

64	864	<p>Given below are two statements:</p> <p>Statement (I): An herbicide label is a legal contract between manufacturer, user and regulatory body.</p> <p>Statement (II): Flowable formulation is an example of liquid 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"> <li>Both Statement (I) and Statement (II) are correct.</li> <li>Both Statement (I) and Statement (II) are incorrect.</li> <li>Statement (I) is correct but Statement (II) is incorrect.</li> <li>Statement (I) is incorrect but Statement (II) is correct.</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	4.0	1.00
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A4 : 4

## Objective Question

65	865	<p>The first case of confirmed herbicide resistance in weed was reported by _____.</p> <ol style="list-style-type: none"> <li>1. C.F. Ryan</li> <li>2. Cive James</li> <li>3. I. Heap</li> <li>4. S.O. Duke</li> </ol> <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	866	<p>Match <b>List-I</b> (herbicide class) with <b>List-II</b> (herbicide group)</p> <table border="1"> <thead> <tr> <th>List-I</th> <th>List-II</th> </tr> </thead> <tbody> <tr> <td>(A). Weak base herbicide</td> <td>(I). Sulfonyl ureas</td> </tr> <tr> <td>(B). Strong base herbicide</td> <td>(II). Triazines</td> </tr> <tr> <td>(C). Weak acid herbicide</td> <td>(III). Dintroanilines</td> </tr> <tr> <td>(D). Non-ionic herbicide</td> <td>(IV). Bipyridilliums</td> </tr> </tbody> </table> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>1. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)</li> <li>2. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)</li> <li>3. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)</li> <li>4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	List-I	List-II	(A). Weak base herbicide	(I). Sulfonyl ureas	(B). Strong base herbicide	(II). Triazines	(C). Weak acid herbicide	(III). Dintroanilines	(D). Non-ionic herbicide	(IV). Bipyridilliums	4.0	1.00
List-I	List-II													
(A). Weak base herbicide	(I). Sulfonyl ureas													
(B). Strong base herbicide	(II). Triazines													
(C). Weak acid herbicide	(III). Dintroanilines													
(D). Non-ionic herbicide	(IV). Bipyridilliums													

## Objective Question

67	867		4.0	1.00
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Given below are two statements:

Statement (I): A foot operated sprayer is basically used for orchard and tree spraying.

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68	868	Herbicidal control for <i>Lantana camara</i>	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Pendimethalin</li> <li>2. Glyphosate</li> <li>3. Atrazine</li> <li>4. Metolachlor</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

69	869	Tembotrione is registered for use in _____.	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Soybean</li> <li>2. Maize</li> <li>3. Barley</li> <li>4. Lentil</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

70 870

4.0

1.00

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

71 871

4.0

1.00

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

Assertion (A) : In the initial phase of flooding (phase 1), there is decrease in hydraulic conductivity

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

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

- 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

## Objective Question

72 872

4.0

1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73	873	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).            Assertion (A) : At sea-level, where the atmospheric pressure is at 1 bar a tensiometer can be used to indicate soil suction values upto 1 bar            Reason (R) : Beyond this value, because of low pressure, the water column in the tensiometer would break into vapour or boil away and leave the tensiometer system making it inoperative            In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> <li>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>3. (A) is true but (R) is false.</li> <li>4. (A) is false but (R) is true.</li> </ol> <p>A1 : 1            A2 : 2            A3 : 3            A4 : 4</p>	4.0	1.00
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Objective Question

74	874	<p>At ultimate wilting point, soil water potential is</p> <ol style="list-style-type: none"> <li>1. - 15 bars</li> <li>2. - 20 bars</li> <li>3. -30 bars</li> <li>4. -60 bars</li> </ol> <p>A1 : 1            A2 : 2            A3 : 3</p>	4.0	1.00
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A4 : 4

## Objective Question

75 875

4.0 1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

76 876

4.0 1.00

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

77 877

4.0 1.00

Given below are two statements:

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78	878	<p>Read the following statements about economization of irrigation water in rice</p> <p>(A). Physical characteristics of infiltrating water have no effect on infiltration rate</p> <p>(B). The depth of wetting increases the infiltration rate</p> <p>(C). Viscosity of water increases infiltration rate hyperbolically</p> <p>(D). Pore sizes increase infiltration rate parabolically</p> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>1. A and B only</li> <li>2. D only</li> <li>3. B only</li> <li>4. C and D only</li> </ol> <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

79	879		4.0	1.00
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Read the following statements about drip irrigation

- (A). Crops that are not too sensitive to salts can be drip-irrigated even with somewhat brackish water (1,000 mg /L of salts)
- (B). Brackish water cannot be used with drip irrigation system at all as the salts clog the lateral pipes and emitters
- (C). In drip irrigation, salts accumulate at the periphery of wetted circle
- (D). Leaching of salts from drip irrigated fields is not required
- (E). Irrigation efficiency of drip irrigation system is 80–85%

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

80	880	<p>A mustard crop is irrigated in 30 hours, with a discharge rate of 200 litres per minute, workout the average depth of irrigation</p> <ol style="list-style-type: none"> <li>1. 90 mm</li> <li>2. 66.6 mm</li> <li>3. 60 mm</li> <li>4. 36 mm</li> </ol> <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

81	881	<p>For irrigation in one ha wheat field, the level of CPE is fixed at 80 mm, compute the amount of irrigation water if desired IW/CPE ratio is 0.8.</p> <ol style="list-style-type: none"> <li>1. 3.2 cm</li> <li>2. 6.4 cm</li> <li>3. 8.8 cm</li> <li>4. 10 cm</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00
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A3 : 3

A4 : 4

## Objective Question

82	882	4.0	1.00
<p>Given below are two statements:</p> <p>Statement (I): In Gridiron drainage system, laterals are provided on both sides of mains</p> <p>Statement (II): The Gridiron drainage system is adopted when the land is practically level or where the land slopes away from the sub-mains on one side and when the entire area has to be drained.</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"> <li>1. Both Statement (I) and Statement (II) are correct.</li> <li>2. Both Statement (I) and Statement (II) are incorrect.</li> <li>3. Statement (I) is correct but Statement (II) is incorrect.</li> <li>4. Statement (I) is incorrect but Statement (II) is correct.</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>			

## Objective Question

83	883	4.0	1.00
<p>Water measuring device used for determining discharge from a piped irrigation system is usually</p> <ol style="list-style-type: none"> <li>1. Weir</li> <li>2. V-notch</li> <li>3. Flow meter</li> <li>4. Flume</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>			

## Objective Question

84	884	4.0	1.00

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

85	885	Most common salt in saline water is	4.0	1.00
		<ol style="list-style-type: none"> <li>1. Magnesium chloride</li> <li>2. Sodium chloride</li> <li>3. Calcium sulphate</li> <li>4. Sodium sulphate</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

86	886	First remote sensing satellite in India is	4.0	1.00
		<ol style="list-style-type: none"> <li>1. IRS- 1A</li> <li>2. IRS-1B</li> <li>3. ERST-1</li> <li>4. LANDSAT- 1</li> </ol>		

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

87	887	<p>Most bioaccumulator of cadmium (Cd) and lead (Pb) is:</p> <ol style="list-style-type: none"> <li>1. Sugar beet</li> <li>2. Mustard</li> <li>3. Spinach</li> <li>4. Cabbage</li> </ol> <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

88	888	<p>Rhenania phosphate - a P containing fertilizer contains:</p> <ol style="list-style-type: none"> <li>1. 26-27% <math>P_2O_5</math></li> <li>2. 28-30% <math>P_2O_5</math></li> <li>3. 31-33% <math>P_2O_5</math></li> <li>4. 34-36% <math>P_2O_5</math></li> </ol> <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

89	889	<p>Red sandy clay loam soils (Chalka soil) are found in the state of:</p> <ol style="list-style-type: none"> <li>1. Andhra Pradesh</li> <li>2. Tamil Nadu</li> <li>3. Karnataka</li> <li>4. Kerala</li> </ol> <p>A1 : 1</p>	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

## Objective Question

90	890	<p>According to the USDA classification, the size of fine sand fraction is:</p> <ol style="list-style-type: none"> <li>1. 0.5 mm</li> <li>2. 0.25 mm</li> <li>3. 0.1 mm</li> <li>4. 0.05 mm</li> </ol> <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

91	891	<p>The mineral containing boron (B) is:</p> <ol style="list-style-type: none"> <li>1. Tourmaline</li> <li>2. Topaz</li> <li>3. Epidote</li> <li>4. Francolites</li> </ol> <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

92	892	<p>Filter cake is a byproduct of</p> <ol style="list-style-type: none"> <li>1. Textile Industry</li> <li>2. Sugar Industry</li> <li>3. Paper Industry</li> <li>4. Dye Industry</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	4.0	1.00
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A4 : 4

## Objective Question

93	893	<p>The fertilizer having least equivalent acidity is:</p> <ol style="list-style-type: none"> <li>1. Urea</li> <li>2. Ammonium nitrate</li> <li>3. Ammonium chloride</li> <li>4. Calcium ammonium nitrate</li> </ol> <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	894	<p>In 1843, an agricultural experiment station was established at Rothamsted, England by:</p> <ol style="list-style-type: none"> <li>1. J.B. Lawes and J.H. Gilbert</li> <li>2. J.B. Boussingault</li> <li>3. Justus von Liebig</li> <li>4. Mitscherlich</li> </ol> <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	895	<p>The most abundant minerals and mineral groups in sand and silt of soils throughout the world is:</p> <ol style="list-style-type: none"> <li>1. Feldspars</li> <li>2. Olivine</li> <li>3. Quartz</li> <li>4. Pyroxenes and Amphiboles</li> </ol> <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

96	896	<p>The Father of Soil Science and Agricultural Chemistry in India is:</p> <ol style="list-style-type: none"> <li>1. Collings</li> <li>2. Stewart</li> <li>3. J.B. Lawes</li> <li>4. J.W. Leather</li> </ol> <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

97	897	<p>The amount of Analytical Reagent grade potassium dichromate required for preparation of 1000 mL of potassium dichromate solution (0.1 N <math>K_2Cr_2O_7</math>). The atomic weight of K = 39, Cr = 52, and O = 16), is:</p> <ol style="list-style-type: none"> <li>1. 4.9 g</li> <li>2. 29.4 g</li> <li>3. 294 g</li> <li>4. 49.0 g</li> </ol> <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

98	898	<p>Match <b>List-I</b> with <b>List-II</b></p> <table border="1"> <thead> <tr> <th>List-I (Property)</th> <th>List-II (Instrument)</th> </tr> </thead> <tbody> <tr> <td>(A). Particle density</td> <td>(I). Wet sieving</td> </tr> <tr> <td>(B). Soil moisture suction</td> <td>(II). Pycnometer</td> </tr> <tr> <td>(C). Humidity</td> <td>(III). Pycnometer</td> </tr> <tr> <td>(D). Aggregate stability</td> <td>(IV). Tentiometer</td> </tr> </tbody> </table> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)</li> <li>2. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)</li> <li>3. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)</li> <li>4. (A) - (IV), (B) - (I), (C) - (III), (D) - (II)</li> </ol>	List-I (Property)	List-II (Instrument)	(A). Particle density	(I). Wet sieving	(B). Soil moisture suction	(II). Pycnometer	(C). Humidity	(III). Pycnometer	(D). Aggregate stability	(IV). Tentiometer	4.0	1.00
List-I (Property)	List-II (Instrument)													
(A). Particle density	(I). Wet sieving													
(B). Soil moisture suction	(II). Pycnometer													
(C). Humidity	(III). Pycnometer													
(D). Aggregate stability	(IV). Tentiometer													

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

99 899

4.0 1.00

Read the following statements carefully.

- (A). 2-Chloro-6-trichloromethyl pyridine  
 (B). 2 Amino-4-chloro-6-methyl pyrimidine  
 (C). Phenyl phosphoro diamidate  
 (D). Dicyandiamide

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

100 900

4.0 1.00

Brays No. 1 reagent consists of mixture of

1. 0.03 N  $\text{NH}_4\text{F}$  + 0.025 N HCl
2. 0.3 N  $\text{NH}_4\text{F}$  + 0.025 N HCl
3. 0.03 N  $\text{NH}_4\text{F}$  + 0.25 N HCl
4. 0.3 N  $\text{NH}_4\text{F}$  + 0.25 N HCl

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

101 901

4.0 1.00

Accumulation of soluble salts in soil is called as :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102	902	<p>The major mechanism of reducing heat from the crop canopy is :</p> <ol style="list-style-type: none"> <li>1. Advective heat losses</li> <li>2. Evaporation</li> <li>3. Transpiration</li> <li>4. Heat absorption by soil</li> </ol> <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

103	903	<p>Available water for plant indicates water held between :</p> <ol style="list-style-type: none"> <li>1. 0.33 bar to 15.0 bar</li> <li>2. 0.1 bar to 0.33 bar</li> <li>3. Above 15.0 bar</li> <li>4. Below 0.1 bar only</li> </ol> <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

104	904		4.0	1.00
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Popular oilseed crops that can be grown as intercrop in cotton:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

105 905

The most suitable group of crops for dryland agriculture is :

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

106 906

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

107 907

4.0 1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 908

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

109 909

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

110 910

4.0

1.00

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111 911

4.0 1.00

Given below are two statements:

Statement (I): In strongly acidic soils,  $\text{H}_2\text{PO}_4^-$  form dominates, while in alkaline soils, P is largely present as  $\text{HPO}_4^{2-}$  form.

Statement (II): Plant takes both the form of  $\text{H}_2\text{PO}_4^-$  and  $\text{HPO}_4^{2-}$  in equal amounts for their growth and development.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112 912

4.0 1.00

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

- (A). Single superphosphate (SSP) contains 9-12% S.
- (B). Ammonium sulphate contains 16% S.
- (C). Potassium sulphate contains 18% S
- (D). Ammonium phosphate sulphate contains 15%.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

113 913

4.0

1.00

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

114 914

4.0

1.00

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

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

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

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

- 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		
Objective Question				
115	915	<p>Read the following statements about silicon.</p> <p>(A). Silicon has the beneficial role in rice and sugarcane crops.</p> <p>(B). It contributes to rigidity and strengthening of the cell wall.</p> <p>(C). It enhances the physiological availability of zinc in plants and counteracts zinc-deficiency-induced phosphorus toxicity.</p> <p>(D). Nearly, 60% of the mineral matter of most of the soils consists of the combined oxides of silicon, aluminium and iron.</p> <p>Choose the <b>correct</b> answer from the options given below:</p> <ol style="list-style-type: none"> <li>1. (A), (B) and (C) only.</li> <li>2. (A), (B) and (D) only.</li> <li>3. (A), (B), (C) and (D).</li> <li>4. (B), (C) and (D) only.</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
116	916	<p>The physical process of soil degradation</p> <ol style="list-style-type: none"> <li>1. Fertility imbalance</li> <li>2. Organic matter decline</li> <li>3. Erosion and depletion</li> <li>4. Acidification</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
117	917		4.0	1.00

Given below are two statements:

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118	918	<p>The flagship scheme "Swachh Bharat Mission" was launched by Government of India in _____.</p> <ol style="list-style-type: none"> <li>1. 1986</li> <li>2. 1998</li> <li>3. 2008</li> <li>4. 2014</li> </ol> <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

119	919	<p>The first country which adopted an agroforestry policy</p> <ol style="list-style-type: none"> <li>1. Nigeria</li> <li>2. India</li> <li>3. Sri Lanka</li> <li>4. Brazil</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	4.0	1.00
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		A4 : 4		
Objective Question				
120	920	In which of the Indian States, shifting cultivation is practiced?  1. Odisha 2. Karnataka 3. Rajasthan 4. 1 and 2 above  A1 : 1  A2 : 2  A3 : 3  A4 : 4	4.0	1.00