	A4:4		
Ohiective	Question		
3 903	If it is said that wind is blowing from 360°, then what is its meaning? 1. Wind is not blowing 2. Wind is blowing from south direction 3. Wind is blowing from true north direction 4. Wind is blowing from magnetic south direction A1:1 A2:2 A3:3	4.0	1.00
	A4:4		
Objective	Question	4.0	1.00
70-	The complex which is specifically inhibited by SHAM in the electron transport chain 1. Complex I 2. Complex II 3. Complex III 4. Complex IV A1:1 A2:2 A3:3 A4:4	4.0	1.00
Ohiaatiuu	Overtice.		
Objective 5 905	The cystic fibrosis transmembrane conductance regulator (CFTR) is a transporter involved in 1. Glucose transport 2. Chloride ion transport 3. Calcium homeostasis 4. Amino acid uptake A1:1 A2:2 A3:3	4.0	1.00

PREVIEW QUESTION BANK

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

r. Clien o.	nt Question ID	Question Body and Alternatives		egativ 1arks	
ective Qu	estion				
901	The term used for the solutions is	growth of terrestrial plants without soil in mineral nutrient	4.0	1.0	
	1. Nutrient culture				
	2. Aquaculture				
	3. Soilless culture				
	4. Solution culture				
	A1:1				
	A2:2				
	A3:3				
	A4:4				
ctive Qu	estion		4.0		
902	Match List-I with List-II (Choose the correct answer from the options given below:)				
	List-I	List-II			
	Instrument	Parameter			
	(A) Wind vane	(I) Photosynthetically active radiation			
	(B) Quantum sensor	(II) Wind speed			
	(C) Anemometer	(III) Atmospheric pressure			
	(D) Barometer	(IV) Wind direction			
	Choose the <i>correct</i> answ	ver from the options given below:			
	1. (A) - (IV), (B) -	(I), (C) - (II), (D) - (III)			
	2. (A) - (I), (B) - (I	II), (C) - (IV), (D) - (II)			
	3. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)				
	4. (A) - (IV), (B) -	(III), (C) - (II), (D) - (I)			
	A1:1				
	A2:2				
	A3:3				

		A4:4				
Obj	ective Qu	estion				
6	906	Given	below are	two statements:	4.0	1.00
		Statement I :		Minimum, optimum and maximum temperatures for germination of rice crop are 10-12°C, 30-32°C and 36-38°C, respectively.		
		Statement II:		Minimum, optimum and maximum temperatures for germination of wheat crop are 3-4.5°C, 20-25°C and 30-40°C, respectively.		
		In the light of t below		ne above statements, choose the correct answer from the options given		
		1.	Both Sta	tement I and Statement II are correct		
		2.	Both Sta	tement I and Statement II are not correct		
		3.	Statemen	nt I is correct but Statement II is not correct		
		4.	Statemen	nt I is not correct but Statement II is correct		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obj	ective Qu	estion				
7	907			n factor SNAC1 (Stress-responsive NAC1) is involved in drought stress ch of the following crop plants?	4.0	1.00
		1.	Sorghum	bicolor (sorghum)		
		2.	Phaseolu	us vulgaris (common bean)		
		3.	Brassica	napus (rapeseed)		
		4.	Musa spj	o (banana)		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
	ective Qu	estion				
8	908				4.0	1.00

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

- 1. Immunohistochemistry
- 2. Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)
- 3. Metabolomics
- 4. RNA-sequencing (RNA-seq)
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

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

4.0 1.00

1.
$$LRGR = \frac{LogLW2 - LogLW1}{t2 - t1}$$

$$2. \quad LRGR = \frac{LW2 - LW1}{t2 - t1}$$

3.
$$LRGR = \frac{LogLW2 + LogLW1}{t2 - t1}$$

$$4. \quad LRGR = \frac{LW2 + LW1}{t2 - t1}$$

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

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
- Osmium
- 4. Iridium
- A1:1
- A2:2

		A3:3		
		A4:4		
Ob.:				
0bje	911		4.0	1.00
		The amino acid considered as a branched-chain amino acid (BCAA) is		
		1. Serine		
		2. Leucine		
		3. Asparagine		
		4. Tyrosine		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ohio	ective Que	netion.		
	912		4.0	1.00
		A lack of micronutrients affects not only plant growth but also vital functions, such as photosynthetic and mitochondrial electron flow. Which of the following group of elements shall have the greatest impact on both photosynthetic and mitochondrial		
		electron transport?		
		1. Co, Ni and Mo		
		2. Ca, K and Na		
		3. Mn, Co and Ca		
		4. Cu, Mn and Fe		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Que	estion		
13	913	The deficiency symptoms of an essential element tend to appear first in young	4.0	1.00
		leaves indicating that the element is relatively immobile. Such symptoms would be shown by which one of the following elemental deficiencies?		
		1. Sulphur		
		2. Iron		
		3. Nitrogen		
		4. Potassium		
		7. I Otassiulii		

		ı		П	11 1
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	stion			
14	914		ich of the following organelles, enzyme pyruvate dehydrogenease complex and ytic pathway are located	4.0	1.00
			Cytosol and Mitochondria		
		2.	Cytosol and chloroplast		
		3.	Golgi bodies and ER		
		4.	Microsomes and ribosomes		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
01:					
	ctive Que			4.0	1.00
	720	7.00	g translocation of photosynthates is plants from source to sink:		
		1.	The loading of photosynthates at source is by active transport and unloading at the sink is by passive transport.		
		2.	The loading of photosyntates at source is by passive transport and unloading at the sink is by active transport.		
		3.	Both loading at the source and unloading at the sink are by active transport.		
		4.	Both loading at the source and unloading at the sink are by passive transport.		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
OF:	-411.4- 0:	-4:			
	ctive Que	estion		4 0	1.00
10	110			1.0	1.00

Match List-II with List-II

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

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

17 917

Select out of the following the correct statement regarding cell membrane

4.0 1.00

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

A1:1

A2:2

A3:3

A4:4

. . .

Objective Question

18 918

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

- C pathway for carbon fixation at high carbon dioxide is the limiting factor in such plants.
- These showed an increased rate of photosynthesis at higher carbon dioxide concentrations.
- 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

Photorespiration does not take place in C₄ plants because such plants

4.0 1.00

- Do not contain fixation enzyme RUBISCO
- 2. Have cells that are impermeable to oxygen
- 3. Have mechanism that increases the concentration of CO2 at the enzyme site
- 4. Cells do not allow oxygen to accumulate in them

A1:1

A2:2

A3:3

A4:4

Objective Question

20 920 ___

The product of photorespiration process is

0 ||1.0

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

A1:1

A2:2

A3:3

		A4:4			
O	jective Qu	oction			
21		The c	ountry that has given name of the tropical cyclone "Mocha" developed in the of May, 2023 in Bay of Bengal is	4.0	1.00
		1.	Bangladesh		
		2.	Pakistan		
		3.	India		
		4.	Yemen		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Ol	jective Qu	estion			
22	922	Which	of the following clouds is a rain bearing cloud?	4.0	1.00
		1.	Nimbostratus		
		2.	Altocumulus		
		3.	Cirrostratus		
		4.	Stratocumulus		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Ol	jective Qu	estion			
23	923	Which	of the following statements is correct?	4.0	1.00
		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.		
		A1:1			
		A2:2			
		A3:3			

		A4:4			
Obje	ctive Que	estion			
24	924		es that are not used for cloud seeding in artificial rain making is	4.0	1.00
			Silver iodide Devices		
		94.5	Dry ice		
		3.	Common salt		
		4.	Kaolinite		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Que	estion			
25	925	Given	below are two statements:	4.0	1.00
Statement (I): In the atmosphere, 90% of the ozone is distributed in the troposphere while only 10% is confined to the stratosphere					
		Statement (II): According to IPCC (2007) estimated value of radiative forcing from the tropospheric ozone is to be 0.35± 0.15 W m ⁻² .			
		In light of the above statements, choose the <i>most appropriate</i> answer from the option 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			
Obje	ctive Que	estion			
26	926			4.0	1.00

Full form of NISAR satellite is

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

A1:1

A2:2

A3:3

A4:4

Objective Question

27 927

Match List-II with List-II

4.0 1.00

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:

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

A1:1

A2:2

A3:3

A4:4

Objective Question

28 928

				~~
Match	ict_	with	ict_	
Match	TISE-I	with	Table.	11

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

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

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

A1:1

A2:2

A3:3

A4:4

O	bjec:	tive	Ques ⁻	tion

29 929

The region of atmosphere having the constant temperature is

4.0 1.00

4.0 1.00

- 1. Troposphere
- 2. Mesopause
- 3. Stratosphere
- 4. 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 surafce 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

Match List-II with List-II

4.0 1.00

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

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:

4.0 1.00

- **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

Objective Question

34 934

			ate cumulative evaporation required for scheduling irrigation at 0.5 IW / CPE with 5 cm of irrigation water?		
			5 cm		
		2.	10 cm		
			15 cm		
			20 cm		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	estion		4.0	1.00
33	933	Which	of the following statements are correct for "Dryland agriculture"?	4.0	1.00
		(A) G	rowing season in dryland agriculture is < 300 days.		
		(B) R	ainfall should be < 1800 mm.		
		(C) M	fain constraints are wind and water erosion.		
		(D) G	rowing regions are mainly humid and tropical as well as uplands.		
		Choos	e the <i>correct</i> answer from the options given below:		
		1.	(A) and (B) only.		
			(A) and (C) only.		
			(B), (C) and (D) only.		
			(B) and (C) only.		
		A1:1			
		A2:2			
		A3:3			
		713.3			
		A4:4			
Obje	ctive Que	estion			
36	936			4.0	1.00

Match List-II with List-II

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

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

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

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.

- 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

	ective Qu 938	estion	4.0	1.00
36	730	What is the optimum range of soil moisture for effective ploughing?	4.0	1.00
		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		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	estion		
39	939	Given below are two statements, one is labelled as Assertion (A) and other one labelled as	4.0	1.00
		Reason (R).		
		Assertion (A): Ridging increases albedo, thereby increasing the effective incoming radiation compared to a flat surface.		
		Reason (R): Tillage causes unequal distribution of energy at the soil surface.		
		In light of the above statements, choose the <i>correct</i> 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		
Obje 40	ctive Qu 940	estion	4.0	1.00
	7-10		1.0	

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

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

4.0 1.00

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

A1:1

A2:2

A3:3

A4:4

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

4.0 1.00

4.0 1.00

19/51

Area of the micro-watershed is

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

- A4:4

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

Objective Question

45 945

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

		$(A) S_{j}$	plash erosion		
		(B) Sl	neet erosion		
		(C) R	ill erosion		
		(D) G	ully erosion		
		Choos	se the <i>correct</i> answer from the options given below:		
		1.	(A), (B), (C), (D).		
			(A), (D), (C), (B).		
			(B), (A), (D), (C).		
			(C), (B), (D), (A).		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	estion			1
46	946	The pl	nysical basis of precision farming is	4.0	1.00
		1.	Input quality		
		2.	Variable rate technology		
		3.	Field variability		
		4.	Site-specific output		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	estion		140	4.00
47	947	An int	ercropping system can be said beneficial, if it has LER:	4.0	1.00
		1.	Equal to 1.0		
		2.	< 1.0		
		3.	>1.0		
		4.	Zero		
		A1 - 1			
		A1:1			
		A2:2			

		A3:3			
		A4:4			
Obje	948			4.0	1.00
			ht avoidance mechanism is found in which of the following crops?		
		1.	Barley		
		2.	Maize		
		3.	Sorghum		
		4.	Sunflower		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obio	ective Que	estion			
49	949		ng geometry that ensures a uniform incidence of solar radiation	4.0	1.00
			Square planting		
			Rectangular planting		
			Mixed planting		
		4.	Random planting		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obie	ective Que	estion			
50	950		ufri Bahar is a prominant variety of	4.0	1.00
		1.	Sunflower		
		2.	Cotton		
			Potato		
			Tobacco		
		A1:1			
		A2:2			

		A3:3			
		A4:4			
	A4:4 Sjective Question			1	
51	951	Hyrbio	l rice for commercial production was first evolved in	4.0	1.00
		1.	India		
		2.	China		
		3.	Japan		
		4.	USA		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Que	stion		10.	11
52	952	Menth	a crop is commercially raised through	4.0	1.00
		1.	Seed		
		2.	Root cutting		
		3.	Stolons		
		4.	Leaflets		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Ohie	ective Que	estion			
			l content in sunflower is	4.0	1.00
		A1:1			
		A2:2			
		A3:3			
	11				

II.	11 1			II	II
		A4:4			
Obie	ective Que	estion			
54	954		among the following is the temperate grass?	4.0	1.00
		1.	White and red clover		
		2.	Napier grass		
		3.	Setaria grass		
		4.	Guinea grass		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ective Que	estion			
55	955	Aerop	onic technology is commercially used in quality seed/planting material production	4.0	1.00
		in			
		1.	Tomato		
		2.	Capsicum		
		3.	Potato		
		4.	Brinjal		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Ohio	otivo Ove	ation			
56	956		sand disparsal by anto is called as	4.0	1.00
			seed dispersal by ants is called as		
			Exozoochory		
			Autochory		
		3.			
		4.	Herpochory		
		A1:1			
		A2:2			

		A3:3		
		A4:4		
				Ш
Obje	ective Que		4.0	1.00
		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		
Obje	ctive Que	estion		
58	958	Given below are two statements:	4.0	1.00
		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 <i>most appropriate</i> 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		
		A2.2		
		A3:3		
		A4:4		
Obie	ctive Que	estion		
59	959		4.0	1.00
	n l		H	n - I

		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		
Obie	ctive Que	estion		
	960	Given below are two statements:	4.0	1.00
		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 <i>most appropriate</i> 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		
Obje	ctive Que	estion		
61	961	Which of the following groups of herbicides, dicamba belongs to?	4.0	1.00
		Aryloxy alkanoic acids		
		2. Arylearboxylic acids		
		3. Thiocarbamates		
		4. Dinitroanilines		
		A1:1		

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

Objective Question

63 963

Match herbicides with their first use/testing or synthesis

4.0 1.00

4.0 1.00

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

Obje	ctive Qu	estion				
64	964	Given	below are	two statements:	4.0	1.00
		Staten	nent (I):	Three types of adjuvants used with herbicides are activator, spray modifier and utility.		
		Staten	nent (II):	Activator adjuvants are a part of the formulation.		
			t of the abbelow.	pove statements, choose the most appropriate answer from the options		
		1.	Both Stat	tement (I) and Statement (II) are correct.		
		2.	Both Stat	tement (I) and Statement (II) are incorrect.		
		3.	Statemen	nt (I) is correct but Statement (II) is incorrect.		
		4.	Statemen	nt (I) is incorrect but Statement (II) is correct.		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
	ctive Qu	estion			4.0	1.00
03	703			resistance was first reported in	7.0	1.00
		1.	Echinoch	loa colona		
		2.	Phalaris :	minor		
		3.	Ageratum	n houstonianum		
		4.	Chenopoo	dium album		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obje	ctive Qu	estion			4.0	1.00
00	700			owing herbicides is highly volatile?	7.0	1.00
			Pendimet	halin		
		2.	Atrazine			
			Ethalflura	alin		
		4.	EPTC			
		A1:1				
		A2:2				

II				II	
		A3:3			
		A4:4			
0bj	967			4.0	1.00
			le 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			
Obj	ective Que	estion			
68	968	A wee	d of both cropped and non cropped lands	4.0	1.00
			Urena lobata		
		2.	Urtica dioca		
			Ageratum sp		
			Solanum xanthocarpum		
		٦.	Solution sumocurpum		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obj	ective Que	estion			JL
69	969	A sele	ctive post-emergence herbicide used for weed control in rice is	4.0	1.00
			Pretilachlor		
			Butachlor		
			Bispyribac Sodium		
			Tembotrione		
		A1:1			
		A2:2			

110/2	, 12.13		174_b1_tive_AdNotVoW1_1 120.11till	11	11	
		A3:3				
		A4:4				
Ohie	ctive Que	estion				
Objective © 70 970 971		Match Cultural pracices with crops				
		Cultural Practice	Crop			
		(A) Beushaning	(I) Sunflower			
		(B) Blind hoeing	(II) Maize			
		(C) Earthing up	(III) Rice			
		(D) Intercultivation with bullocks	(IV) Sugarcane			
		Choose the <i>correct</i> answer from the				
		1. (A) - (I), (B) - (II), (C) - (III) 2. (A) - (III), (B) - (IV), (C) - (IV)				
		3. (A) - (I), (B) - (II), (C) - (IV)				
		4. (A) - (III), (B) - (IV), (C) - (
		A1:1				
		A2:2				
		A3:3				
		A4:4				
		stion		1.0	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:

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

A1:1

A2:2

A3:3

A4:4

Objective Question

72 972

Given below are two statements:

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

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

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

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

A1:1

A2:2

A3:3

	A4:4			
ective Qu	estion			
973		et order, in decreasing trend, of principal components of India's water budget	4.0	1.
	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			
ective Qu			4.0	1
		below are two statements, one is labelled as Assertion (A) and other one labelled ason (R).	1.0	
	Asser	tion (A): Addition of organic matter to a mineral soil leads to improvement in water holding capacity of the soil.		
	Reaso	n(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		
		at of the above statements, choose the <i>most appropriate</i> answer from the options 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			
ective Qu	estion			_
975			4.0	1

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	

When Δ (delta) is in cm, B (base period) is in days and D is in ha cumec⁻¹

- 1. $\Delta = \frac{864 \text{ B}}{D} (cm)$
- $2. \qquad \Delta = \frac{864 \, \mathrm{D}}{\mathrm{B}} \, (cm)$
- 3. $\Delta = \frac{8640 \text{ B}}{\text{D}} (cm)$
- 4. $\Delta = \frac{86.4 \text{ B}}{D} (cm)$
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

77 977

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

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	ctive Qu	estion			14.5-		
79	979	Match List-I with List-I	1	4.0	1.00		
		List-I	List-II				
		Instrument	Parameter measurement				
		(A) Gypsum blocks	(I) Water flow				
		(B) Flume	(II) Soil moisture suction				
		(C) Infra-red balance	(III) Di-electric constant				
		(D) Irrometer	(IV) Electric resistance				
		(E) TDR	(V) Gravimetric moisture content				
			ver from the options given below: (III), (C) - (II), (D) - (V), (E) - (I)				
		2. (A) - (IV), (B) - (III), (C) - (I), (D) - (II), (E) - (V)					
		3. (A) - (I), (B) - (V	7), (C) - (IV), (D) - (II), (E) - (III)				
		4. (A) - (IV), (B) - ((I), (C) - (V), (D) - (II), (E) - (III)				
		A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	ctive Qu	estion					
80	980	A 4% salt concentration i	s equal to how many ppm?	4.0	1.00		
		1. 40000					
		2. 4000					
		3. 400					
		4. 40					
		A1:1					
		A2:2					
		A3:3					
		A4:4					
	otive Que 981	estion		4.0	1.00		

			trical conductivity of a saturation extract of the soil is 11 dS/m, what will be the cal 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			
Obje	ctive Que	estion			
82	982	A suga	arcane crop of 2 ha area was irrigated 5 times with 6 cm water in each irrigation; ut the total quantity of water applied in cubic meter.	4.0	1.00
		1.	15000		
		2.	12000		
		3.	6000		
		4.	3000		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	estion			
83	983		a among the followings provides the correct sequence of four zones of the ation profile (from top to bottom)	4.0	1.00
		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			

Obje	984	estion	4.0	1.00
04	704	According to Kung (1971) water requirement to raise nursery for 1 ha irrigated rice crop is	4.0	1.00
		1. 40 mm		
		2. 40 cm		
		3. 10 cm		
		4. 200 mm		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ective Que	estion		
85	985	Read the statements about irrigation management in chickpea	4.0	1.00
		(A) Flowering and pod filling are the most critical stages for irrigation.		
		(B) Water requirement of chickpea ranges from 400-600 mm.		
		(C) Irrigating chickpea with saline water that has salinity of 10 mmhos/cm can reduce yield by about 55%.		
		(D) Chickpea is usually irrigated following check basin method.		
		(E) Under conditions of low evaporative demand as in North India, irrigation can cause lodging in chickpea.		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (E) only		
		2. (A), (B) and (D) only		
		3. (B), (C) and (E) only		
		4. (C), (D) and (E) only		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Que	estion		
86	986		4.0	1.00

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

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

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

Objective Question

88 988 Secondary tillage is done primarily

4.0 1.00

4.0 1.00

- 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

		A4:4			
Ohie	ctive Que	estion			1
	989		ominant clay mineral present in Inceptisol is	4.0	1.00
			Montmorrilonite		
		2.	Illite		
		3.	Kaolinite		
		4.	Chlorite		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Que	estion			
90	The diameter of fine particle in sand fraction according to USDA is:				1.00
		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			
	ctive Que	estion		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

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Objective	Question		
93 993	Phosphorus (P) is an important essential nutrient.	4.0	1.0
	(A) Plant roots absorb P in the $H_2PO_4^-$ form, but under neutral to alkaline environments, $HPO_4^{\ 2^-}$ and or $PO_4^{\ 3^-}$ ions could also be taken up.		
	(B) In normal P-sufficient plants, P-content varies from 0.1% to 0.4% by weight.		
	(C) It is an essential ingredient for <i>Rhizobium</i> bacteria to convert atmospheric $N(N_2)$ into the ammonium (NH ₄) form usable by plant.		
	(D) Because of being immobile in plants, first signs of its deficiency appear on the older leaves.		
	Choose the <i>correct</i> 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		
bjective	Question		
4 994	As per critical relative humidity (CRH), the most hygroscopic fertilizer is	4.0	1.0
	Ammonium sulphate		
	2. Urea ammonium sulphate		
	3. Ammonium nitrate		
	4. Ammonium chloride		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
bjective	Question		
5 995		4.0	1.

Match List-II with List-II

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

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

96 996

Monoammonium phosphate is produced by reaction of ammonia with

4.0 1.00

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

A1:1

A2:2

A3:3

A4:4

Objective Question

97 997

Prismatic soil structure is a distinct feature in

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

		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Que	estion estimates the second es		
	998	Soil extractants used for available nutrients:	4.0	1.00
		(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 <i>correct</i> 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		
Ohie	ctive Que	estion .		
	999	The targeted yield concept for soil fertility evaluation was proposed by:	4.0	1.00
		S.P. Raychaudhuri		
		2. T.D. Biswas		
		3. B. Ramamoorthy		
		4. N.P. Datta		
		T. T. Data		
		A1:1		
		A2:2		
		A3:3		
		A4:4		

00 1000	Match List-I with List-II		4.0	1.00
	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		
	4. (A) - (IV), (B) - (III), (C) - A1:1 A2:2 A3:3			
	A4:4			
			15.2	
bjective Qu 01 1001			4.0	1.00

A2:2

A3:3

A4:4

Objective Question

102 1002

		The te	rm allelopathy was coined by		
		1.	Holm		
		2.	Harper		
		3.	Molisch		
		4.	Arnon		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Que	estion			
	1003		will be the concentration of an atrazine solution if 2 kg of atrataf (50 y.a i of	4.0	1.00
		1.	0.2 %		
		2.	2.0 %		
		3.	0.1 %		
		4.	1.0 %		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Ohie	ctive Que	estion			
	1004		t sequence of herbicide resistant cases in following crops :	4.0	1.00
		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			
Ohio	ctive Que	estion			
Colc	ouvo que				

105	1005	1. 2. 3.	Asymptotic Linear Parabolic Exponential	4.0	1.00
	1006	1. 2. 3.	and oil content of soybean is% and%, respectively. 43 and 20 35 and 30 30 and 35 20 and 43	4.0	1.00
	ctive Que	estion		1.0	4.00
107	1007	1. 2. 3.	Annidation Allelopathic	4.0	1.00

Objective Question						
108	1008		soil sample contains 20% moisture, calculate the specific heat of this soil fic heat of water and soil is 1.0 and 0.2, respectively).	4.0	1.00	
		1.	0.44 cal/kg			
		2.	0.44 cal/g			
		3.	0.33 cal/kg			
		4.	0.33 cal/g			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obje	ctive Que	estion				
	1009		one is not the correct ideotype for dryland farming?	4.0	1.00	
			Thick leaves			
		2.	Shallow root system			
		200	Leaves horizontally oriented			
		4.	High water requirement			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obje	ctive Que	estion				
110	1010	Which	endogenous harmone increases under drought conditions?	4.0	1.00	
		1.	Auxins			
		2.	Gibbrelic acid			
		3.	Abscisic acid			
		4.	Cytokinin			
		A1:1				
		A2:2				
		A3:3				
		A4:4				

bjective Qu	iestion		
11 1011	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:	4.0	1.00
	1. 0.47%		
	2. 0.57%		
	3. 0.37%		
	4. 0.67%		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
Objective Qu	lestion	4.0	1.00
.12 1012	The functions of zinc are:	4.0	1.00
	(A) It is involved in the synthesis of indole acetic acid, metabolism of gibberellic acid and synthesis of RNA.		
	(B) It is a constituent of enzymes such as carbonic anhydrase (CA), alcoholic dehydrogenase and superoxide dismutase (SOD).		
	(C) Because of its preferential binding to sulphydryl group, Zn plays an important role in the stabilization and structural orientation of the membrane proteins.		
	(D) It influences translocation and transportation of P in plants. Under Zn-deficiency, poor translocation of P occurs, resulting in P-deficiency.		
	Choose the <i>correct</i> answer from the options given below:		
	1. (A), (B) and (D) only.		
	2. (A), (C) and (D) only.		
	3. (A), (B) and (C) only.		
	4. (B), (C) and (D) only.		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
Objective Qu	lestion		
113 1013		4.0	1.00

				porosity when a soil have its bulk density and particle density of 1.50 mg/m ³ , respectively?		
		1. 44	1.4%			
		2. 43	3.4%			
		3. 45	5.3%			
		4. 40	5.3%			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obje	ective Qu	estion				
114	1014	Given be		two statements, one is labelled as Assertion (A) and other one labelled	4.0	1.00
		Assertion	n (A):	Organic-S is made available to plants under aerobic upland conditions by mineralization into sulphates by S-oxidizing bacteria such as <i>Thiobacillus</i> .		
		Reason (R):	Mineralization of organic-S results in production of H^+ ions leading to the acidification of soil.		
		In light below.	of the	above statements, choose the correct answer from the options given		
		1. B	oth (A)	and (R) are true and (R) is the correct explanation of (A).		
		2. B	oth (A)	and (R) are true but (R) is NOT the correct explanation of (A).		
		3. (A) is true	e but (R) is false.		
				se but (R) is true.		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
	ective Qu	estion				
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

The physical process of soil degradation :

4.0 1.00

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

A1:1

A2:2

A3:3

A4:4

Objective	Question
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117 1017

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

Biochar produd by incomplete combustion of biological materials is rich in

4.0 1.00

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

A1:1

A2:2

A3:3

A4:4

Objective Question

119 1019

Tree Crops: A Permanent Agriculture is written by

4.0 1.00

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

A1:1

A2:2

10,23, 12.1		17 1_51_£10_1 (a.to110 m1_1 120 m1m1		
	A3:3			
Objective Qu	estion			
120 1020		ated Wasteland Development Programme (IWDP) had been under implementation	4.0	1.00
	1.	1979-80		
	2.	1989-90		
	3.	1994-95		
	4.	1997-98		
	A1:1			
	A2:2			
	A3:3			
	A4:4			