

PREVIEW QUESTION BANK

Module Name : Agronomy - 62-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7 207

4.0 1.00

Given below are two statements:

Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time,

Statement (II): Weather is a condition of atmosphere at a given place and at a given time

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

8 208

4.0 1.00

The local name of cyclone in Phillippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alyosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
21	2601	Given below are two statements: Statement (I): In Indian sub-continent, about one-fifth of total geographical area is affected by drought in every 10 years. Statement (II): In Indian sub-continent, about one-third of total geographical area is affected by drought in every 15 years. In light of the above statements,choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	2602	Given below are two statements: Statement (I): De Saussure concluded that the carbon contained by plants was derived from the soil. Statement (II): Sir Humphry Davy stated that plants received most of the carbon from atmospheric air. In light of the above statements,choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	2603		4.0	1.00

Correct sequence of states as per increasing order of plant nutrient (NPK) consumption for the year 2021-22 in

1. Maharashtra < Gujarat < Andhra Pradesh < Telangana < Haryana
2. Gujarat < Maharashtra < Haryana < Andhra Pradesh < Telangana
3. Gujarat < Maharashtra < Telangana < Andhra Pradesh < Haryana
4. Telangana < Andhra Pradesh < Gujarat < Maharashtra < Haryana

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

24	2604	The weed density in a control plot (weedy check) is 50 per sq. m and in a herbicide treated plot 35 per sq. m, calculate weed control efficiency (%). 1. 30.0 2. 42.9 3. 60.0 4. 85.7 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

25	2605	Which of the following principles of system of rice intensification (SRI) largely forced many farmers to disadopt it? (A). Young seedlings and single seedling/hill (B). Wider spacing (C). Mechanical weeding (D). Intermittent irrigation (E). Use of organic manure Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (E) only. 3. (B), (C) and (D) only. 4. (B), (D) and (E) only.	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
26	2606	Which among the followings is not the characteristic of the durum wheat? 1. Blades of the durum wheat leaves are usually narrower than those of bread wheat. 2. Durum wheat kernels are harder and heavier than bread wheat. 3. Durum wheat kernels are typically larger than that of bread wheat. 4. The dough of durum wheat is less elastic than the bread wheat. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
27	2607	Topping and de-suckering are not practised generally for which type of tobacco? 1. Chewing tobacco 2. Cigar tobacco 3. Wrapper tobacco 4. Bidi tobacco A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	2608	The operational range for electrical resistance block is 1. 0 to -0.85 bars 2. 0 to -100 bars 3. 0.5 to -50 bars 4. -0.1 to -15 bars A1 : 1	4.0	1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

29	2609	Calculate the seed rate of rice in kg/La , if the spacing of hills for transplanting is 20cm x 20cm ; number of seedlings / hill is 2; germination percentage of seeds is 90; purity percentage of seeds is 90; test weight of rice seed is 25 g; damaged seedlings during uprooting from the nursery is 20% of the uprooted seedlings. 15.4 18.5 9.6 19.3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

30	2610	The term variance is used to denote: - Standard deviation - Square of the standard deviation - Square root of the standard deviation - Average of differences from the mean A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

31	2611	Which of the following types of tobacco has highest nicotine content? - Bidi tobacco - Cigar tobacco - Chewing tobacco - Cigar wrapper tobacco	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
32	2612	What is the field water-use efficiency in kg/ha-mm of wheat crop, if it yields 4.5 t/ha grain and water requirement is 45 cm? 0.1 10 100 1000 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
33	2613	Which experimental design is a single factor design? - Factorial RCB design - Split-plot design - Latin square design - Strip-plot design A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	2614	Which of the following agenda is not contributed by the International year of Millets 2023 to the UN 2030 Agenda for sustainable development? - Life on land - Decent work and economic growth - Nutrition for the most vulnerable - Responsible consumption and production	4.0	1.00

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
35	2615	The time required to complete hydrolysis of urea when applied in normal soil and alkline soils, respectively is 2-3 days in normal soil, and 4 days in alkaline soil. 1-2 days in normal soil, and 5 days in alkaline soil. 1-2 days in normal soil, and 10 days in alkaline soil. 2-3 days in normal soil, and 7 days in alkaline soil. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
36	2616	Diagnosis and recommendation integrated system (DRIS) approach was developed by: - Olsen - Leibig - Beaufils - Arnon A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
37	2617	Clay mineral having largest specific surface area is - Kaolinite - Montmorillonite - Smectite - Illite A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
38	2618	The most dominant soil order in India is: 1. Entisol 2. Alfisol 3. Inceptisol 4. Mollisol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
39	2619	Minerals containing iron are: (A). Hematite (B). Goethite (C). Sphalerite (D). Magnetite Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	2620		4.0	1.00

Given below are two statements:

Statement (I): Iron deficiency is most common in upland crops, particularly those grown on the calcareous/alkaline soils of arid region.

Statement (II): Molybdenum is associated with nitrogenase and nitrate reductase enzymes and is essential for nitrogen fixing plants and microorganisms.

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

41 2621

4.0

1.00

Solubility of Fe(III) oxides decreases in the order:

- (A). $\alpha\text{-Fe}_2\text{O}_3$ (Hematite)
- (B). $\alpha\text{-FeOOH}$ (Ggoethite)
- (C). $\gamma\text{-Fe}_2\text{O}_3$ (Maghemite)
- (D). $\gamma\text{-FeOOH}$ (Lepidocrocite)

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42 2622

4.0

1.00

The production of single superphosphate (SSP) involves following operations:

(A). The powdered rock phosphate (containing 30%-38% total P_2O_5) is mixed with sulphuric acid (65%-75% H_2SO_4) to form a slurry.

(B). The wet material is subjected to final curing, when some of the slow reactions reach a state of near completion and the excess water evaporates. The curing time is 2-6 weeks.

(C). Solidification of the slurry in a den (denning), where continued reactions and crystallization of monocalcium phosphate take place (time required 0.5 to 4 hours).

(D). If granular SSP is desired, it can be granulated either before or after it is cured.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43 2623

4.0 1.00

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

Assertion (A) : Dehydrogenase activity reflects the total range of the oxidative activity of soil microorganisms and may be considered a good indicator of the oxidative metabolism in soils.

Reason (R) : Dehydrogenase oxidizes soil organic matter by transferring protons and electrons from organic substrates to inorganic acceptors.

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

44 2624

4.0 1.00

Most weathered soil order is

1. Inceptisols
2. Vertisols
3. Oxisols
4. Alfisols

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

45 2625

4.0 1.00

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

List-I	List-II
(Nutrient element)	(Enzymes)
(A). Copper	(I). Nitrogenase and nitrate reductase
(B). Iron	(II). Ascorbic acid oxidase and polyphenol oxidase
(C). Zinc	(III). Catalase and peroxidase
(D). Molybdenum	(IV). Carbonic anhydrase and dehydrogenase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46 2626

4.0 1.00

Calcium requirement is highest for:

1. Cereals
2. Legumes
3. Oil seeds
4. Forage crops

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47 2627

Nicotine is found in tobacco plant and it is used as insecticide. It is a

1. Limonoid
2. Terpenoid
3. Carotenoid
4. Alkaloid

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

48 2628

Beardeaux mixture composed of

1. CaSO_4 and CuO
2. CuSO_4 and CuO
3. CuSO_4 and CaO
4. CaSO_4 and CaO

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

49 2629

4.0

1.00

		Imazethapyr is a 1. Selective broad spectrum herbicide 2. Non-selective broad spectrum herbicide 3. Selective herbicide for grasses 4. Selective herbicide for broad leaves A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
50	2630	Ideal range of absorbance for accepting data from spectrophotometer is 1. 0.1-0.5 2. 0-1 3. 0.2-1.5 4. 0.2-0.8 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
51	2631	Jasmolin is found in which of the following plant 1. <i>Tinospora sp.</i> 2. <i>Gimnema sp.</i> 3. <i>Anthocephalas sp.</i> 4. <i>Tanacetum sp.</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	2632		4.0	1.00

Essential oil is mainly comprised of

1. Monoterpenes
2. Diterpenes
3. Limonins
4. Acetogenins

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

53 2633

Pungent principle of chilli is

1. Capxanthin
2. Capsaicin
3. Chalcone
4. Capsirubin

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

54 2634

EW formulation of pesticide is a

1. Emulsion
2. Solution
3. Colloid
4. Suspension

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

55 2635

4.0

1.00

"Matador" is the trade name of which herbicide ?

1. Metsulfuron-methyl
2. Metribuzin
3. Sulfosulfuron
4. Glyphosate

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56	2636	Solution of 2% concentration is equivalent to 1. 200 ppm 2. 2000 ppm 3. 20000 ppm 4. 200000 ppm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

57	2637	Quality Protein Maize (QPM) is richer in which of the following amino acid than normal maize ? 1. Lysine and Glycine 2. Glycine and Aspartic acid 3. Lysine and Tryptophan 4. Histidine and Proline A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

58	2638		4.0	1.00
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		CIB&RC is a Govt. body located at 1. Ghazhibad 2. Faridabad 3. Delhi 4. Gurugram A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
59	2639	The estimated total utilizable surface water resources of India is 1. 433 BCM 2. 690 BCM 3. 1123 BCM 4. 4000 BCM A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	2640	Given below are two statements: Statement (I): The slope of mass curve shows the intensities at various time intervals in a storm. Statement (II): Hyetograph is derived from the mass curve. 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 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
61	2641	Given below are two statements related to peak rate of runoff: Statement (I): The factors related to retardance to flow caused by the effect of surface detention and channel storage considered. Statement (II): The runoff coefficient is dependent only on watershed characteristics. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	2642	Soil moisture tension in a salt free soil at field capacity depending on soil texture ranges from 7 to 32 atmosphere 0.7 to 7 atmosphere 0.01 to 0.7 atmosphere < 0.01 atmosphere A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	2643	Surangam, water harvesting structures are found in - Bellary - Tamil Nadu - Kasargod - Telangana A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
64	2644	Which of the following is a traditional rainwater harvesting technique practiced in rainfed agriculture? 1. Desalination 2. Drip irrigation 3. Contour bunding 4. Sprinkler irrigation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	2645	Which of the following irrigation scheduling methods relies on soil moisture measurements to determine when irrigation is needed? 1. Calendar-based scheduling 2. Crop water stress index (CWSI) 3. Pan evaporation method 4. Soil moisture sensors A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
66	2646	What is the term used to describe the process of using vegetation to enhance water drainage and stabilize soil in agricultural landscapes? 1. Terracing 2. Riparian buffers 3. Vegetative filter strips 4. Subsurface drains A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
67	2647	Which factor is NOT a consideration in groundwater management? 1. Rate of groundwater recharge 2. Extraction rate 3. Depth of the water table 4. Surface water availability A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
68	2648	What is the term used to describe the process of lowering the water table around a well due to excessive pumping, resulting in reduced water availability? 1. Aquifer depletion 2. Cone of depression 3. Pumping efficiency 4. Hydraulic fracturing A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
69	2649	What is the primary advantage of pressurized irrigation systems over traditional gravity-based systems? 1. Reduced water use 2. Lower initial investment 3. Higher application efficiency 4. Greater flexibility in crop selection A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

70	2650	What is the term used to describe the process of using plants to remove pollutants from soil and water? 1. Phyto sorption 2. Phytoextraction 3. Phytoremediation 4. Phyto stabilization A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

71	1003201	Given below are two statements: Statement (I): A complex of several types of communities, some in climax stage, and others in different stages of succession maintained under more or less similar conditions represents polyclimax theory. Statement (II): Planet earth along with the atmosphere (air, land and water) that sustains life represents biome. 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	4.0	1.00
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Objective Question

72	1003202		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Plant community)	(Nature of soil and water requirement.)
(A). Helophytes	(I). Cold soil
(B). Oxylophytes	(II). Sand and gravel
(C). Psychrophytes	(III). Acid soils
(D). Psammophytes	(IV). Marsh soil
(E) Halophytes	(V) Saline soil

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73 1003203

4.0 1.00

Given below are two statements:

Statement (I): In response to sudden, 5-10 °C rises in temperature, plants produce heat shock proteins.

Statement (II): Heat shock proteins were discovered in the white fly and have since then been identified, in mammals, humans, plants, fungi and microorganisms.

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

- Both Statement (I) and Statement (II) are correct.
- Both Statement (I) and Statement (II) are incorrect.
- Statement (I) is correct but Statement (II) is incorrect.
- Statement (I) is incorrect but Statement (II) is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

74 1003204

4.0 1.00

Given below are two statements:

Statement (A): Mutant organisms that lack carotenoids cannot live in the presence of both light and molecular oxygen.

Statement (R): Carotenoids exert their photo-protective action by rapidly quenching the excited state of chlorophyll; and help dissipate the energy stored in the chlorophyll by excitation transfer or photochemistry.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75 1003205

4.0 1.00

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

List-I	List-II
(Physiological/ bio-chemical group of herbicide.)	(Candidate herbicide)
(A). Acetyl Co-A carboxylase inhibition	(I). Metsulfuron-methyl
(B). Acetolactate synthase inhibitor	(II). Diclofop-methyl
(C). Photosystem-II inhibitor	(III). Diquat
(D). Photosystem-I electron diverter	(IV). Prometryne

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

76	1003206	Which of the following weeds is a C₄ monocot weed ? 1. <i>Rottboellia cochinchinensis</i> 2. <i>Amaranthus edulis</i> 3. <i>Tribulus cistoides</i> 4. <i>Euphorbia sp.</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1003207	Given below are two statements: Statement (I): Pitcher plants can not synthesise protein of their own. Statement (II): Pitcher plants pretend in some sorts to attract insects and extract protein out of their body. 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	4.0	1.00
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Objective Question

78	1003208	The correct order of plant species according to preponderance of weed species is 1. Malvaceae > Cruciferae > Cyperaceae > Asteraceae 2. Cruciferae > Asteraceae > Malvaceae > Cyperaceae 3. Asteraceae > Cyperaceae > Cruciferae > Malvaceae 4. Cyperaceae > Asteraceae > Malvaceae > Cruciferae	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
79	1003209	Read the statements given as below: (A). <i>Sorghum</i> releases prussic acid and suppresses many weeds growing in the vicinity. (B). Wheat is more competitive to weeds than barley. (C). Live barley plants and their root exudates are far less inhibitory than aqueous leachates of dead roots. (D). Maize has an allelopathic effect on <i>Amaranthus retroflexus</i>. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (A) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	1003210	Pendimethalin is to be applied at the rate of 1 kg ai/ha in 600 litre water /ha. If the commercial product has 30EC, what quantity of commercial product of herbicide and volume of water will be needed to cover an area of 4000 m² . 1. 1.33 kg herbicide and 240 L water 2. 1.5 kg herbicide and 200 L water 3. 1.03 kg herbicide and 200 L water 4. 2.5 kg herbicide and 1000 L water A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

81	1003211	Read the following statements about manganese (Mn): (A). Mn is absorbed by plants as Mn^{2+}, as well as in molecular combination with certain natural and synthetic complexing agents. (B). Mn^{2+} can substitute for Mg^{2+} in phosphorylation and group-transfer reactions. (C). High concentration of Mn increases the formation and accumulation of IAA. (D). Crinkle leaf of cotton is due to Mn toxicity. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1003212	Find out the correct sequence of the Cu-fertilizers according to increassing order of Cu-content in them. 1. Copper chelates < Copper acetate < Copper sulphate < Copper sulphate monohydrate 2. Copper chelates < Copper sulphate < Copper acetate < Copper sulphate monohydrate 3. Copper sulphate monohydrate < Copper sulphate < Copper acetate < Copper chelates 4. Copper acetate < Copper chelates < Copper sulphate < Copper sulphate monohydrate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1003213		4.0	1.00
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Given below are two statements:

Statement (I): In acid soils application of lime can reduce leaching losses of K.

Statement (II): Liming soils already at pH 6-7.5 will usually decrease exchangeable K and reduce K uptake by plants.

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

84	1003214		4.0	1.00
Read the given statements carefully: (A). In general, NO_3^- salts of Na, these are not acid forming. (B). NO_3^- salts of K are not acid forming. (C). Prolonged use of NaNO_3 will decrease soil pH. (D). Calcium nitrate is a more useful fertilizer for winter season vegetable crops. Choose the correct answer from the options given below: 1. (B) and (D) only. 2. (A) 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

85	1003215		4.0	1.00
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Grain yield from a 220 kg/ha urea fertilized plot was 6 t/ha and from control (No-N applied) plot was 3 t/ha, work out agronomic efficiency

1. 13.6 kg grain /kg N applied
2. 13.6 per cent
3. 29.6 per cent
4. 29.6 kg grain /kg N applied

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86	1003216	Given below are two statements: Statement (I): All India Coordinated Research Project for Dryland Agriculture was formally launched in June 1975. Statement (II): The Project was launched at 23 cooperating centres with coordinating cell of the project located at Hyderabad. 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 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1003217		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Crops)	(Optimum sowing depth)
(A). Sesamum	(I). 2-3 cm
(B). Pearl millet	(II). 1-2 cm
(C). Sunflower	(III). 5 cm
(D). Cotton	(IV). 3-5 cm
(E). Coriander	(V). 7 cm

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

88	1003218	Read the following statements about reasons for poor soil fertility in drylands (A). Fast weathering of minerals. (B). Low organic matter content. (C). Leaching losses of nutrients. (D). Soil salinity and alkalinity. Choose the correct answer from the options given below: (A), (B) and (D) only. (B) and (D) only. (A), (B), (C) and (D). (B), (C) and (D) only. A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

89	1003219	Read the following statements: (A). Silver iodide is used for seeding cold clouds and potassium chloride for seeding warm clouds. (B). Dry ice can be used for seeding cold clouds. (C). Silver iodide is used for seeding cold clouds and sodium chloride for seeding warm clouds. (D). Hygroscopic materials are necessary as nucleus for warm clouds. Choose the correct answer from the options given below: 1. (A), (C) and (D) 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	4.0	1.00
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Objective Question

90	1003220	Read the following statements: (A). Watershed is an acceptable basic hydraulic unit of planning. (B). In a watershed, development is not confined only to agricultural land but also covers whole land area starting from ridge line to valley. (C). Entry point activities are important for tangible benefits to majority of farmers/villagers that help in confidence building. (D). Bottom up approach is more successful than top-down approach in a watershed development. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
91	1003221	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : One-third nitrogen is applied at the time of planting and rest of the nitrogen is applied in three split doses up to 180 days in 'adsali' planting of sugarcane. Reason (R) : With too much increase in nitrogen application beyond the optimum, sugar content in juice is decreased. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below . - Both (A) and (R) are correct and (R) is the correct explanation of (A). - Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). (A) is correct but (R) is not correct. (A) is not correct but (R) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
92	1003222	For flowering and grain growth of wheat, the phosphorus concentration below _____ in dry leaf tissue is considered deficient. 0.25% 0.20% 0.15% 0.10% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	1003223	The presence of which compound between the kernel and husk of pigeonpea grain plays a role in difficulty for milling? - Piscidic acid - Caprylic acid - Lauric acid - Uranic acid A1 : 1	4.0	1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

94	1003224	Which of the following functions does not take place due to topping in tobacco? 1. Topping improves root system. 2. It improves weight of leaf. 3. It increases the nicotine and nitrogen contents of the leaf. 4. The individual leaf area is doubled after topping. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

95	1003225	Which of the following parameters is most important for P uptake by crops? 1. Root length 2. Phosphorus concentration in the bulk soil solution 3. Root radius 4. Phosphorus buffering power of the soil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1003226	In which of the following pulses, the biomass per plant is a potent yield attribute and has a direct effect on the test weight of grain? 1. Horsegram 2. Lathyrus 3. Chickpea 4. Lentil A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

97	1003227	In a strip plot design with three replications, six horizontal plots and three vertical plots, the degrees of freedom of error used to test the variation between the interaction are _____. 1. 10 2. 20 3. 24 4. 30 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1003228	Statistical procedures employed in making inferences about treatments hold good only when there is _____. 1. Randomization 2. Local control 3. Replication 4. Randomization and local control A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

99	1003229	To test the equality of mean yield of a crop from two independent fields treated alike except the fertilizer, the scientist has to use _____. 1. F- test 2. χ^2 - test 3. t - test 4. z - test A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

100 1003230

4.0 1.00

Transformation of data is not required in which of the following situations?

- (A). The effects of treatments are multiplicative.
- (B). Independence of errors
- (C). Homogeneity of errors
- (D). Data follows normal distribution

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101 1003231

4.0 1.00

Which of the following mixtures of herbicides control annual grasses, broad-leaved weeds and sedges in wheat under conservation agriculture?

- (A). Sufosulfuron + metsulfuron
- (B). Mesosulfuron + idosulfuron
- (C). Isoproturon + metsulfuron

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102	1003232	The practice of using trees or tree planting specifically to help the poor people to improve their living and meeting their routine requirements of fuelwood and fodder is: 1. Social forestry 2. Community forestry 3. Farm forestry 4. Poverty eradication forestry A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

1031003233

4.01.00

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

List-I	List-II
History of conservation agriculture	Year
(A). Introduction of conservation agriculture in India	(I). 1943
(B). Publication of book on no-till entitled "Plowman's Folly"	(II). 1973
(C). Publication of Book on "No-Tillage Farming" by Phillips and Young	(III). 1976
(D). Commercial launch of transgenic glyphosate-resistant soybean	(IV). 1990
(E). Registration of glyphosate for general broad-spectrum weed control	(V). 1996

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104	1003234	Tensiometer is more accurate in which of the following soils? 1. Sand 2. Clay loam 3. Clay 4. Organic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

105	1003235	How many times the hydraulic conductivity will be increased in a saturated flow, if the radius of the soil pore increases 2 times? 1. 2 2. 4 3. 8 4. 16 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1003236	Roots need at least _____ % by volume air space in the soil to survive. 1. 7 2. 10 3. 13 4. 16 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1003237		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) : Water stabilizes temperatures and is reflected in the relatively uniform temperature of land near large bodies of water.

Reason (R) : Water has the highest specific heat of any known substance, except liquid ammonia.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108	1003238	Calculate the total quantity of water discharged in lakh litres through submerged orifice of diameter 0.07 m, if the difference in elevation between the water surface at the upstream and downstream faces of orifice is 19.62 cm and the time of water discharge is 2 hour 46 minute 40 seconds? 1. 46078 2. 18.431 3. 1.8431 4. 0. 46078 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

109	1003239	What is the correct sequence of amount of normal rainfall distribution during different seasons {Post-Monsoon season (October-December), Winter season (January-February) and Pre-monsoon season (March-May)} in India? 1. Post-Monsoon season > Winter season > Pre-monsoon season 2. Winter season > Pre-monsoon season > Post-Monsoon season 3. Pre-monsoon season > Post-Monsoon season > Winter season 4. Pre-monsoon season > Winter season > Post-monsoon season A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
110	1003240	The velocity of open channel running water can be measured by: 1. Water meter 2. Venturimeter 3. Piezometer 4. Current meter A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
111	1003241	Infiltration is: 1. Downward movement of water 2. Lateral movement of water 3. Entry of water at the soil surface 4. Downward flux at the bottom layer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
112	1003242	First irrigation to wheat is recommended at 3-4 weeks stage because: 1. Crop water need is the highest at this stage. 2. Crop requires moist root zone for development of its adventitious roots. 3. Crop requires moist root zone for seminal root initiation. 4. Newly emerging tiller sprouts at this stage require more moisture than any other stages of wheat. A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

113	1003243	Which is the correct sequence of the strength of cation adsorption to the CEC? 1. $H^+ < Na^+ < K^+ < Mg^{2+} < Ca^{2+}$ 2. $Na^+ < H^+ < K^+ < Mg^{2+} < Ca^{2+}$ 3. $Na^+ < K^+ < Mg^{2+} < Ca^{2+} < H^+$ 4. $Na^+ < K^+ < H^+ < Mg^{2+} < Ca^{2+}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1003244	The soil of a farmer has the following properties: pH = 8.8; ESP = 20%; CEC = 20 meq/100 g. Calculate the SAR of the soil of the farmer. 1. 14.6 2. 16.7 3. 17.3 4. 17.7 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

115	1003245	What is the gypsum requirement in megagram for the upper 15 cm of the soil for 10 ha area, if the soil CEC is 25 meq/100 g and the final ESP required by the farmer is 8% from the initial ESP of 28%? 1. 9.632 2. 96.32 3. 9632 4. 96320 A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

116	1003246	The unpleasant odours from the compost heap are most often caused by _____. 1. Emission of methane from compost heap. 2. Nitrogen being released as ammonia. 3. Faster decomposition of lignin. 4. Faster decomposition of cellulose. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

117	1003247	Which of the following components of humus are not found in plants but have been synthesized by the soil microbes? 1. Fulvic acid 2. Humic acid 3. Humin 4. Polyuronides A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

118	1003248	Which of the following indices measures the economic superiority of intercropping over the most economic sole crop? 1. ELER 2. SLER 3. MER 4. ATER A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

119	1003249	$Y = a+bx-cx^2$ is the yield response equation for pigeonpea, where Y is the grain yield of pigeonpea in t/ha and x is the amount of phosphorus applied in kg/ha through farmyard manure (FYM). The applied FYM contains 0.2% P after proper processing for analysis and 60% moisture on fresh weight basis. What is the price ratio for the estimation of economic optimum phosphorus amount to be applied through FYM, if the price of pigeonpea is Rs 6600.00 per quintal and that of the applied fresh FYM is Rs 2.64 per kg ? 1. 20 2. 2 3. 0.5 4. 0.05 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

120	1003250	To maintain a healthy soil microbiome, the soil across a natural farm unit should have diverse crops, a minimum of _____ crops over the year as per the principle of natural farming reported by the Niti Aayog, New Delhi. 1. 8 2. 10 3. 12 4. 14 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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