# PREVIEW QUESTION BANK

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

Sr. No.	Client Question ID	Que	estion Body and Alternatives	Marks	Ne N	gative Iarks
Object	ive Question					
1 4	Water u	se efficiency in decreasing order			4.0	1.00
		her Irrigation				
	(B). Drip	Irrigation				
	(C). Spri	nkler Irrigation				
	(D). Surf	face Irrigation				
	Choose	the <b>correct</b> answer from the options given be	low:			
	2. (D 3. (B)	), (B), (C), (D). ), (C), (A), (B). ), (A), (D), (C). ), (B), (D), (A).				
	A1:1					
	A2:2					
	A3:3					
	A4 : 4					
Object	tive Question					
	102				4.0	1.00
	10000 000 000	ist-I with List-II				
	List-I (F	unction)	List-II (Nutrient elements)			
	(A).Nitro	ogenase & nitrogen reductase enzymes	(I). Phosphorus			
	(B). Con	nponent of urease enzymes	(II). Magnesium			
	(C). Ene	rgy transfer	(III). Molybdenum			
	(D). Cor	nstituent of Chlorophyll	(IV). Nickel			
	1. (A 2. (A 3. (A	the <b>correct</b> answer from the options given belonder (IV), (B) - (III), (C) - (II), (D) - (IV) ) - (I), (B) - (II), (C) - (III), (D) - (IV) ) - (I), (B) - (II), (C) - (IV), (D) - (III) ) - (III), (B) - (IV), (C) - (I), (D) - (II)	ow:			
	A1:1					
	A2:2			colle	ego	edu

A1:1

A2:2		
A3:3		
A4:4		

Objective Question

6 406

Matc	h List-	with	List-II

List-I (Method)	List-II (Estimation / Determination		
(A).Gravimetric method	(I). Estimation of Nitrogen		
(B).Hydrometer method	(II).Estimation of Organic Carbon		
(C). Walkley & Black method	(III). Estimation of Soil Texture		
(D). Kjeldahl method	(IV). Estimation of Soil moisture		

Choose the correct answer from the options given below:

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (IV), (B) (III), (C) (II), (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
7 | 407 |

Identify the Manganese containing minerals
(A). Pyrolusite

- . . .
- (B). Malachite
- (C). Manganite
- (D). Goethite

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

- 1. Only A & B
- 2. Only B & C
- 3. Only A & C
- 4. Only B & D

A1:1

A2:2

4.0 1.00

		A3:3		
		A4:4		
Ob	ective Qu	nestion		'
<u>Ob</u> ,	408	Given below are two statements, one is labeled as Assertion (A), and the other one is labeled as Reason (R).  Assertion (A): The molality of a solution in a liquid state changes with temperature.  Reason (R): The volume of a solution changes with a change in temperature.  In light of the above statements, choose the <i>most appropriate</i> 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 and (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.	4.0	1.00
		A2:2 A3:3 A4:4		
	ective Qu	testion		
9 Ob.	409	Which of the following method likely to be used where the water supply is limited and the market value of the crop is high?  1. Surface irrigation 2. Sprinkler irrigation 3. Drip irrigation 4. Pitcher irrigation  A1:1  A2:2  A3:3  A4:4		1.00
10	410		4.0	1.00
		World soil day is celebrated every year on:  1. 5 <sup>th</sup> october 2. 5 <sup>th</sup> November 3. 5 <sup>th</sup> December 4. 5 <sup>th</sup> January  A1:1		
			45	uul

		A2:2			
		A3:3			
		A3:3			
		A4:4			
	ctive Que	estion			
11	411	The DAPOG method of raising rice nurse	ries was introduced in India from:	4.0	1.00
			nes was introduced in India Ironi.		
		1. Philippians 2. Taiwan			
		3. Japan			
		4. China			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
		741.1			
Obje	ctive Que	estion			
12	412			4.0	1.00
		Match List-I with List-II			
		List-I (Name of Founder)	List-II (Related Subject)		
		(A). D. N . Walia	(I). Nanotechnology		
		The second secon	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
		(B). Richard Feynman	(II). Soil Biology		
		(C). Mason Vaugh	(III). Agricultural Engineering		
		(D). J. B. Boussingault	(IV). Agrometeorology		
		Choose the <b>correct</b> answer from the opt	ions given below:		
		1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)			
		2. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)			
		3. (A) - (IV), (B) - (I), (C) - (III), (D) - (II) 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)			
		4. (A) - (III), (b) - (IV), (c) - (I), (b) - (II)			
		A1:1			
		A2:2			
		A3:3			
		A3:3 A4:4			
Ohio	ctive Ow	A4:4			
	ctive Que	A4:4		4.0	1.00

#/23, 4.33	Match <b>List-I</b> with <b>List-II</b>		TSICALSCIENCE_1-120.IIIIII		
	List-I (Name of Author)	List-II (Name of Book)			
	(A). M. Fukuoka	(I). Clay Mineralogy			
	(B). R. E. Grim	(II). Soil Fertility and Fertilizer			
	(C). Theophrastus	(III). The One Straw Revolution			
	(D). S. L. Tisdale	(IV). Enquiry into plants			
	Choose the <b>correct</b> answer from 1. (A) - (III), (B) - (I), (C) - (IV) 2. (A) - (I), (B) - (II), (C) - (III) 3. (A) - (I), (B) - (II), (C) - (IV) 4. (A) - (III), (B) - (IV), (C) - (IV) 4. (A) - (IV), (C) - (IV), (	r), (D) - (II) , (D) - (IV) , (D) - (III)			
	A3:3 A4:4				
bjective Qu	uestion				<u></u>
bjective Qu	1. Castor 2. Mahua 3. Neem 4. Mustard  A1:1  A2:2  A3:3	cample of an edible oil cake for feeding ca	ttle?	4.0	
5 415				4.0	

	417		4.0	1.00
e	ctive Que	estion estimate the state of th		
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		3. (A), (C) and (D) only 4. (A), (B) and (D) only.		
		2. (B), (C) and (D) only.		
		1. (A), (B) and (C) only.		
		Choose the <i>correct</i> answer from the options given below:		
		(D). 0.9 atm		
		(C). 1 bar		
		(B). 100 dyne/cm <sup>2</sup>		
		(A). 100 kPa		
	416	A water column of 10 m in height represents the atmospheric pressure of :	4.0	1.00
	ctive Que	estion		
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		3. (A) and (C) only 4. (A) and (D) only.		
		2. (B) and (C) only.		
		1. (A) and (B) only.		
		(D). Mn  Choose the <i>correct</i> answer from the options given below:		
		(C). Mo		
		(B). Mg		
		(A). Fe		
		In highly acidic pH, the following nutrients are available in toxic amounts in soil:		

		Phosphate solubility     Nitrification inhibito     Chelating agent				
		4. Urease inhibiter				
		A2:2				
		A3:3				
		A4:4				
	ctive Que	estion			4.0	1.00
10	410	Match List-I with List-II			4.0	1.00
		List-I	List-II			
		Instrument	Used for Measurement of			
		(A). Lysimeter	(I). Water holding capacity			
		(B). Keen's Box	(II). Relative humidity			
		(C). Hygrometer	(III). Direct solar radiation			
		(D). Pyrheliometer	(IV). Matric potential			
		1. (A) - (I), (B) - (II), (C) 2. (A) - (IV), (B) - (II), (C) 3. (A) - (I), (B) - (II), (C) 4. (A) - (IV), (B) - (I), (C)	C) - (III), (D) - (I) - (IV), (D) - (III)			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obje	ctive Que	estion				
19	419				4.0	1.00
				col	leg	edun

Objective Q 21 421	(B). Waksman (C). Stevenson (D). Beijerinck Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (C) and (D) only. 4. (B), (C) and (D) only.  A1:1  A2:2  A3:3  A4:4	4.0	1.00
Objective Q	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (C) and (D) only. 4. (B), (C) and (D) only.  A1:1  A2:2  A3:3  A4:4		
	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (C) and (D) only 4. (B), (C) and (D) only.  A1:1  A2:2  A3:3		
	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (C) and (D) only 4. (B), (C) and (D) only.  A1:1		
	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only.  2. (A), (B) and (D) only.  3. (A), (C) and (D) only.  4. (B), (C) and (D) only.		
	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only.  2. (A), (B) and (D) only.  3. (A), (C) and (D) only		
	(C). Stevenson  (D). Beijerinck  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (C) only.  2. (A), (B) and (D) only.		
	(C). Stevenson (D). Beijerinck		
	(C). Stevenson		
	(A). Kononova		
23 1720	Which of the following Scientist are associated with the development of humus?	7.0	1.00
Objective Q	uestion	4.0	1.00
	A4:4		
	A3:3		
	A2:2		
	A1:1		
	<ol> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol>		
	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).		
	Reason (R): Humic substances have different types of negatively charged functional groups with huge numbers.		
	Given below are two statements, one is labeled as Assertion (A), and the other one is labeled as Reason (R).  Assertion (A): Within the same mineralogical composition, soils containing higher humus showed higher CEC.		

Chipschire Question		ers/ADMINI~1/AppData/Local/Temp/Rar\$EXa10936.30901/172_14_B1_Live_PHYSICALSCIENCE_1-120.html	leg	edun	ıia
(8). Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below.  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  Al : 1  A2 : 2  A3 : 3  A4 : 4  Which of the following programme was introduced to bridge the gap between Research System and the Extension System Programme  1. Rastnyya Krishi Vikas Yajana (RKVY). 2. National Agricultural Extension Project (NAEP). 3. Mahatma Gandh National Rural Employment Guarantee Act (MGNRESA).  A1 : 1  A2 : 2  A3 : 3  A1 : 4  Objective Question  Objective Question	23   423		4.0	1.00	
(S), Phosphatase (C), Phytase (D), Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  Al : 1  A2 : 2  A3 : 3  A4 : 4  Objective Question.  22		Question	1.		
(B), Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  22    422  Which of the following programme was introduced to bridge the gap between Research System and the Extension System Programme  1. Rastryya Krishi Vikas Yajana (RKVV). 2. National Agricultural Extension Project (NAEP). 3. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). 4. Institutional Village Linkage Programme (IVLP).  A1: 1  A2: 2		A4:4			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  22    422    Which of the following programme was introduced to bridge the gap between Research System and the Extension System Programme  1. Rastnya Krishi Vikas Yajana (RKVY). 2. National Agricultural Extension Project (NAEP). 3. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). 4. Institutional Village Linkage Programme (IVLP).		A3:3			
(B), Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (C) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1: I  A2: 2  A3: 3  A4: 4  Objective Question  22    422    Which of the following programme was introduced to bridge the gap between Research System and the Extension System Programme  1. Rastryya Krishi Vikas Yajana (RKVY), 2. National Agricultural Extension Project (NAEP). 3. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). 4. Institutional Village Linkage Programme (IVLP).		A2:2			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (C) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  Zu   422   Which of the following programme was introduced to bridge the gap between Research System and the Extension System Programme  1. Rastryya Krishi Vikas Yajana (RKVV). 2. National Agricultural Extension Project (NAEP). 3. Mahatma Gandhii National Rural Employment Guarantee Act (MGNREGA).		A1:1			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question  22   422   Which of the following programme was introduced to bridge the gap between Research System and the Extension System   1.00   1		<ol> <li>National Agricultural Extension Project (NAEP).</li> <li>Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA).</li> </ol>			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the correct answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  22 422  Which of the following programme was introduced to bridge the gap between Research System and the Extension System  4.0 1.00					
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1:1  A2:2  A3:3  A4:4					
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1:1  A2:2  A3:3  A4:4		Question	4.0	1.00	
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.  A1:1  A2:2  A3:3					
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.					
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only.		A2:2			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only.		A1:1			
(B). Phosphatase (C). Phytase (D). Nitrogenase Choose the <i>correct</i> answer from the options given below:  1. (A) and (D) only.					
(B). Phosphatase (C). Phytase (D). Nitrogenase					
(B). Phosphatase (C). Phytase					
(B). Phosphatase					
(A). ATP sulfurylase					
During the mineralization of the organic P compound, microorganisms cleave the compound by the production the enzymes.		(A). ATP sulfurylase			

Prismatic soil structure is found in:

- (A). Subsurface of arid and semi-arid soils
- (B). Grassland Soil
- (C). Poorly drained soil
- (D). Soils with swelling clay

Choose the correct answer from the options given below:

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

4. (A), (B) and (D) only.

- 3. (A), (C) and (D).
- A1:1
- A2:2
- A3:3
- A4:4

#### Objective Question

24 424

Match List-II with List-II

(D). Class II

List-II	
(Colour)	
(I). Green	
(II). Yellow	
(III). Brown	
	(Colour) (I). Green (II). Yellow

(IV). Pink

Choose the correct answer from the options given below:

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

25 425



Match List-I with List-II

List-I	List-II
(Soil Temperature Regime)	(Mean Annual Temperature)
(A). MEGHATHERMIC	(I). 8° C to < 15° C
(B). HYPERTHERMIC	(II). 15° C to < 22° C
(C). THERMIC	(III). 28° C or more
(D). MESIC	(IV). 22° C to < 28° C

Choose the correct answer from the options given below:

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

A1:1

A2:2

A3:3

A4:4

Objective Question

26 426

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

Assertion (A): Wind Erosion Equation E = f (ICKLV)

Reason (R): Wind erosion equation determination for the reduction of soil erosion to tolerable limits necessitates the adoption of properly planned cropping practices and soil conservation measures.

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

27 | 427

collegedunia

4.0 1.00

#### Match List-I with List-II

List-I	List-II
Column-A	Column-B
(A). Soil conservation	(I). Soil capability classification
(B). Landslides	(II). Mineralization & immobilization
(C). C: N ratio	(III). Hilly areas
(D). Land use	(IV). Strip cropping

Choose the correct answer from the options given below:

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

A1:1

A2:2

A3:3

A4:4

## Objective Question

28 428

Match List-I with List-I

	4.0   1.	.00
h List-I with List-II		

List-I	List-II	
(Parameter)	(Unit)	
(A). Cloud Cover	(1). %	
(B). Soil Temperature	(II). Km/hr	
(C). Wind Speed	(III). °C	
(D). Relative Humidity	(IV). Okta	

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

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (IV), (B) (III), (C) (II), (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		
Obje	ctive Que	estion		
29	429		4.0	1.00
		Given below are two statements, one is labeled as Assertion (A), and the other one is labeled as Reason (R).		
		Assertion (A): The water requirement of Rice varies from 100 to 200 cm.		
		Reason (R): Water requirement varies due to soil type and rainfall and variety.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		<ol> <li>Both (A) and (R) are correct and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).</li> </ol>		
		<ul><li>3. (A) is correct but (R) is not correct.</li><li>4. (A) is not correct but (R) is correct.</li></ul>		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ohie	ective Que	estion		
	430		4.0	1.00
		(i) Formed by the lateralization process; (ii). Acidic (<6.0), with low CEC (iii). Deficient in almost all nutrients but can be managed well (iv). Occur in about 18 million ha in the southern states, Western Ghats of Maharashtra, Orissa, some part of West Bengal and north-east regionsis called		
		(A). Alluvial Soils		
		(B). Black Soils		
		(C). Desert Soils		
		(D). Laterite and Lateritic Soils		
		Choose the <i>correct</i> answer from the options given below:		
		1. (D) only.		
		2. (A) and (B) only.		
		3. (B) and (C) only 4. (B) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ective Que	estion		
31	431		4.0	1.00
		coll	eσ	hdu

e:///C	:/Users	s/ADMINI~1/AppData/Local/Temp/Rar\$EXa10936.30901/172_14_B1_Live_PHYSICALSCIENCE_1-120.html	olleg	edunia
33	433		4.0	1.00
	ctive Que	estion		
		A4:4		
		A2:2 A3:3		
		A1:1		
		<ol> <li>Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol>		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		Reason (R) hue is 2.5 YR, value is 5 and chroma is 6.		
32	432	Given below are two statements, one is labelled as Assertion (A) and the other one is labelled as Reason (R).  Assertion (A): The notation of Munsell Colour Chat is 2.5YR5/6	4.0	1.00
	ctive Que	estion	4.0	1.00
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		3. (A), (B), (C) and (D). 4. (B), (C) and (D) only.		
		2. (A), (B) and (C) only.		
		1. (A), (B) and (D) only.		
		Choose the <i>most correct</i> answer from the options given below:		
		(D). Soil Resource Mapping and Precision Farming.		
		(C). Spectra Reflectance Studies.		
		(B). Development of Land Evaluation Methods.		
		Applications of Geoinformation in Soil Resource Studies  (A). Soil Survey.		

Soil moisture content decreases the order

- (A). Permanent willting
- (B). Hygroscopic
- (C). Field Capacity
- (D). Oven dry

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

- 1. (A), (B), (C), (D).
- 2. (C), (A), (B), (D).
- 3. (B), (A), (D), (C).
- 4. (C), (B), (D), (A).
- A1:1
- A2:2
- A3:3
- A4:4

# Objective Question

34 | 434

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

List-I	List-II	
(Institutes)	(Headquarter)	
(A). I I S S	(I). Hyderabad	
(B). I I H R	(II). Bangalore	
(C). C R I D A	(III). Jodhpur	
(D). C A Z R I	(IV). Bhopal	

Choose the correct answer from the options given below:

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

35 435



The characteristics of Palygorskite mineral are..

- (A). They are found in Humid regions
- (B). They have fibrous morphology
- (C). They are Amphibole double silica chain
- (D). They form double ribbed sheet with two rows of tetrahedral apexes

Choose the correct answer from the options given below:

- 1. (A), (B) and (C) only
- 2. (B), (C) and (D) only
- 3. (A), (C) and (D). only
- 4. (A), (B) and (D) only
- A1:1
- A2:2
- A3:3
- A4:4

#### Objective Question

36 436

Match List-I with List-II

List-I	List-II
(Database model)	(Component)
(A) Relational	(I) One-to-Many relationship
(B) Object Oriented	(II) Child and parent tables
(C) Network	(III) Foreign key
(D) Hierarchical	(IV) Attribute and Class

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

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

37 437



		The steady-state soil infiltration rate is:		
		The Steady-State Sull Illilitiation rate is.		
		1. Soil surface controlled		
		2. Water supply controlled		
		3. Soil Profile controlled		
		4. Groundwater controlled		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Que	stion		
8	438	Saturated hydraulic conductivity <i>in situ</i> is measured by:	4.0	1.00
		1. Guelph permeameter		
		2. Infiltrometer		
		3. Neutron probe		
		4. Piezometer		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
bje	ctive Que	estion estimate the second		
)	439		4.0	1.00
		The process by which neutrons lose their kinetic energy through elastic collisions in the soil is known as:		
		1. Normalization		
		2. Cooling		
		3. Radiation		
		4. Thermalization		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
bie	ctive Que	estion		
	440		4.0	1.00
				المال المال
		col	TES.	cuull
///C	:/Users	/ADMINI~1/AppData/Local/Temp/Rar\$EXa10936.30901/172_14_B1_Live_PHYSICALSCIENCE_1-120.html	gest Sti	dent Raview-Pl

		The pF curve is same as:  1. Moisture-density relation 2. Soil temperature-water content relation 3. Soil pH-base saturation relation 4. Soil water content-matric potential relation  A1:1  A2:2  A3:3  A4:4		
Obje	ective Que	stion	<u> </u>	
41	441	The CO <sub>2</sub> around plant roots in the soil is exchanged with the atmosphere through the process known as:  1. Diffusion 2. Mass flow 3. Respiration 4. Oxidation  A1:1  A2:2  A3:3  A4:4	4.0	1.00
01:	4:	<u></u>		
	ective Que	stion	4.0	1.00
		In International Union of Soil Science classification system, fine sand has a size range of:  1. 0.2-2.0 mm 2. 0.02-0.2 mm 3. 0.002-0.02 mm 4. <0.002 mm  A1:1  A2:2  A3:3  A4:4		
Obje	ctive Que	estion		
	443		4.0	1.00
		coll	ego	edur

Original design of tensiometer was first proposed by  1. Williard Gardner  2. L. A. Richards  3. B. E. Livingston  4. Henry Darcy  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  (A) Arid and Temperate regions  (B) Temperate and Humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  (E) All (B) and (D) only.  2. (A) and (D) only.  3. (D) only.  4. (C) only.  A1: 1  A2: 2  A3: 3			What is the porosity of a soil which has a bulk density of 1.33 Mg m <sup>-3</sup> [Pick the closest value]		
2.0.53 m² m² 3			4 0 40 3 -3		
3.047 m² m² 4.055 m² m² 4.055 m² m² 4.055 m² m² 4.11     A1:1					
A 1: 1  A2: 2  A1: 3  A4: 4  Objective Question  44   44  Objective Question  1. Willard Gardiner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  (A) Aird and Temperate regions (B) Temperate and Humid regions (C) Aird and Semi-arid regions (C) Humid and Sub-humid regions (D) Humid and Sub-humid					
A1 : 1					
A2 : 2 A3 : 3 A4 : 4  Objective Question  44   444			4. 0.55 MF M -		
A3 : 3					
Objective Question  4			A1:1		
Objective Question  4					
A4: 4  Objective Question  I. Willard Gardner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  Spyrum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-and regions (D) Humid and Sub-humid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A) and (D) only. 3. (D) only. 4. (C) only. A1: 1  A2: 2  A3: 3			A2:2		
A4: 4  Objective Question  I. Willard Gardner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1: 1  A2: 2  A3: 3  A4: 4  Objective Question  Spyrum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-and regions (D) Humid and Sub-humid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A) and (D) only. 3. (D) only. 4. (C) only. A1: 1  A2: 2  A3: 3					
Descrive Question  41    444			A3:3		
Descrive Question  41    444			A4 · 4		
4.0 I.00  Original design of tensiometer was first proposed by  1. Willard Gardner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1:1  A2:2  A3:3  A4:4  Objective Question  45  45  47  Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Hundi regions (C) Arid and Sub-hundi regions (D) Humid and Sub-humid regions (D) Gonly. 3. (D) only. 4. (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3					
4.0 I.00  Original design of tensiometer was first proposed by  1. Willard Gardner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1:1  A2:2  A3:3  A4:4  Objective Question  45  45  47  Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Hundi regions (C) Arid and Sub-hundi regions (D) Humid and Sub-humid regions (D) Gonly. 3. (D) only. 4. (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3	Obje	ctive Que	estion estimate the state of th		
1. Willard Gardner 2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  A1:1  A2:2  A3:3  A4:4  Objective Question  45				4.0	1.00
2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question  45   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions (D) Humid and Sub-humid regions (D) Humid and (Sub-humid regions (D) Humid and (C) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  Al: 1  A2: 2  A3: 3			Original design of tensiometer was first proposed by		
2. L. A. Richards 3. B. E. Livingston 4. Henry Darcy  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question  45   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions (D) Humid and Sub-humid regions (D) Humid and (Sub-humid regions (D) Humid and (C) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  Al: 1  A2: 2  A3: 3			1. Willard Gardner		
4. Henry Darcy  A1:1  A2:2  A3:3  A4:4  Objective Question  45    445   Gypsum, carbonates, micas, and feldspars are primarily located in:  (A) Arid and Temperate regions  (B) Temperate and Humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  (D) Humid and Sub-humid regions  Choose the correct answer from the options given below:  1. (A), (B) and (D) only.  2. (A) and (C) only.  4. (C) only.  A1:1  A2:2  A3:3					
A1: 1 A2: 2 A3: 3 A4: 4  Objective Question  45    445			3. B. E. Livingston		
A2:2  A3:3  A4:4  Objective Question  45   445			4. Henry Darcy		
A2:2  A3:3  A4:4  Objective Question  45   445					
A2:2  A3:3  A4:4  Objective Question  45   445					
Objective Question  45   445   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions (Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1: 1  A2: 2  A3: 3					
Objective Question  45   445   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions (Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1: 1  A2: 2  A3: 3			A2 · 2		
A4 : 4  Objective Question  45   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1 : 1  A2 : 2  A3 : 3			A22		
A4 : 4  Objective Question  45   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1 : 1  A2 : 2  A3 : 3			A3:3		
Objective Question  45   445   445   Gypsum, carbonates, micas, and feldspars are primarily located in: (A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3					
4.0 1.00  Gypsum, carbonates, micas, and feldspars are primarily located in:  (A) Arid and Temperate regions  (B) Temperate and Humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  Choose the correct answer from the options given below:  1. (A), (B) and (D) only.  2. (A) and (C) only.  3. (D) only.  4. (C) only.  A1:1  A2:2  A3:3			A4:4		
4.0 1.00  Gypsum, carbonates, micas, and feldspars are primarily located in:  (A) Arid and Temperate regions  (B) Temperate and Humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  Choose the correct answer from the options given below:  1. (A), (B) and (D) only.  2. (A) and (C) only.  3. (D) only.  4. (C) only.  A1:1  A2:2  A3:3					
Gypsum, carbonates, micas, and feldspars are primarily located in:  (A) Arid and Temperate regions  (B) Temperate and Humid regions  (C) Arid and Semi-arid regions  (D) Humid and Sub-humid regions  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only.  2. (A) and (C) only.  3. (D) only.  4. (C) only.  A1:1  A2:2  A3:3			estion		
(A) Arid and Temperate regions (B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the correct answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3	45	445		4.0	1.00
(B) Temperate and Humid regions (C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1: 1  A2: 2  A3: 3					
(C) Arid and Semi-arid regions (D) Humid and Sub-humid regions Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  Al: 1  A2: 2  A3: 3			(A) Arid and Temperate regions		
(D) Humid and Sub-humid regions  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3			(B) Temperate and Humid regions		
(D) Humid and Sub-humid regions  Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3			(C) Arid and Semi-arid regions		
Choose the <i>correct</i> answer from the options given below:  1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3					
1. (A), (B) and (D) only. 2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3					
2. (A) and (C) only. 3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3  collegedunia			Choose the <i>correct</i> answer from the options given below:		
3. (D) only. 4. (C) only.  A1:1  A2:2  A3:3  collegedunia					
4. (C) only.  A1:1  A2:2  A3:3  collegedunia					
A1:1 A2:2 A3:3  collegedunia					
A2:2 A3:3  collegedunia			4. (C) only.		
A2:2 A3:3  collegedunia					
A3:3 collegedunia			A1:1		
A3:3 collegedunia					
(3) (3) (4) (4) (4)			A2:2		
(3) (3) (4) (4) (4)					
India's largest Student Rayley Blatford			A3:3	eg	edunia
e.//C./Osers/ADMINI~1/AppData/Local/Temp/RatseAa10956.50901/11/2_14_61_Live_PH15ICAL5CIENCE_1-120.fitfili	e:///C	:/Users	/ADMINI~1/AppData/Local/Temp/Rar\$EXa10936.30901/172_14_B1_Live_PHYSICALSCIENCE_1-120.html	est Stud	lent Review Platforn 20/52

		A4:4		
Obje	ctive Que	estion estimate the state of th		
46	446		4.0	1.00
		Which of the following microflora is most abundant in soil?		
		1. Bacteria		
		2. Fungi		
		3. Viruses		
		4. Nematodes		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Que	estion		
47	447		4.0	1.00
		Given below are two statements:		
		Statement (I): Soil Oxygen Diffusion Rate measurement is based on Fick's law		
		Statement (II): The diffusion coefficient of O <sub>2</sub> is higher than CO <sub>2</sub>		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		an 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		
Obie	ctive Que	estion		
	448		4.0	1.00
		Which of the following Atomic Absorption Spectrometers is used for determination of mercury?		
		1 Combits france stemic phenometra		
		Graphite furnace atomic absorption     Cold vapour atomic absorption		
		3. Hydride generation atomic absorption		
		4. Flame atomic absorption		
		- 100 miles region to 100 miles of the region of the regi		
		A1:1		
		A2:2		
		coll	eσ	dur

		A3:3		
		A4:4		
	ctive Que	estion		
49	449		4.0	1.00
		According to Mohr and van Baren, arrange the following five stages of soil development		
		(A) Juvenile Stage		
		(B) Senile		
		(C) Un-weathered parent material stage		
		(D) Virile		
		Choose the <b>correct</b> answer from the options given below:		
		1. (A), (B), (C), (D).		
		2. (C), (A), (D), (B).		
		3. (B), (A), (D), (C).		
		4. (C), (B), (D), (A).		
		A1:1		
		Al. I		
		A2:2		
		AZ . Z		
		A3:3		
		AJ. J		
		A4:4		
Obie	ctive Que	estion		
	450		4.0	1.00
		The following statements relate to Kaolinite clay:		
		(A) Kaolinite is formed by the decomposition of orthoclase feldspar		
		(B) It does not expand when it comes in contact with water		
		(C) The kaolinite clays are 2:1 phyllosilicates		
		(D) Kaolinite clays have a fine texture		
		Choose the <i>correct</i> 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		
Obje	ctive Que	estion		
	451		4.0	1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).  Assertion (A): Kaolinite is the most preferred clay for the ceramic industry		
		Reason (R) : Kaolinite does not absorb water and expand		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		<ol> <li>Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol>		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Que	estion		
52	452	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).  Assertion (A): Salt-affected soils in India are a threat to national food security and economic development	4.0	1.00
		Reason (R): Arid and semi-arid regions with high evaporation rates and with limited freshwater availability to flush out the excess salts from the soil, favoring the formation of saline soils		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below .		
		<ol> <li>Both (A) and (R) are correct and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).</li> <li>(A) is correct but (R) is not correct.</li> <li>(A) is not correct but (R) is correct.</li> </ol>		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Que	estion		
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#### Match List-II with List-II

List-I	List-II
(Element)	(Electronic configuration)
(A) Mg	(I) 2,1
(B) Na	(II) 2, 8,7
(C) Li	(III) 2, 8, 1
(D) Cl	(IV) 2, 8, 2

Choose the correct answer from the options given below:

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (I), (B) (III), (C) (IV), (D) (II)
- 3. (A) (IV), (B) (III), (C) (I), (D) (II)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

## Objective Question

54 454

Arrange the following clay minerals in terms of their increasing activity (measured through cation exchange capacity)

- (A) Kaolinite
- (B) Vermiculite
- (C) Gibbsite
- (D) Illite

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

- 1. (A), (C), (B), (D).
- 2. (A), (B), (D), (C).
- 3. (B), (A), (D), (C).
- 4. (C), (A), (D), (B).
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

55 455



Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Soil temperature oscillations over a year penetrate deeper in the soil than over a day.

Reason (R): Damping depth is proportional to angular frequency or period of oscillations.

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 456

56

List-I	List-II
(Field of application)	(Name of Theory/Law)
(A) Astrophysics	(I) Pascal's law
(B) Quantum mechanics	(II) Big bang theory
(C) Optics	(III) Beer-Lambert's law

Choose the correct answer from the options given below:

(IV) Transformation theory

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

A1:1

(D) Fluid statics

A2:2

A3:3

A4:4

# Objective Question

57 457

4.0 1.00

		Following are some famous space missions. Arrange them in chronology (A) International Space Station, NASA			
		(B) NASA-ISRO Synthetic Aperture Radar (NISAR)			
		(C) Sentinel, ESA			
		(D) Robotic spacecraft Hayabusa, JAXA			
		Choose the <b>correct</b> answer from the options given below:			
		1. (A), (B), (C), (D). 2. (A), (D), (C), (B). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Objec	ctive Que	estion estimate the state of th			
58	458	Given below are two statements: Statement (I): Nitrogen is lost from waterlogged soils only by leaching Statement (II): Waterlogged soils may develop iron toxicity to plants 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.  Al : 1  A2 : 2  A3 : 3  A4 : 4	4.0	1.00	
Ohio	etiva Ou	action.			
_	tive Que	SMUII	4.0	1.00	
		ADMINITATION Data/Local/Temp/Par\$EYa10036 30901/172 14 B1 Live PHYSICAL SCIENCE 1.120 html	ege	edun	ia &

	Match List-I with List-II List-I	List-II		
		(Largest producing country)		
	(A) Corn	(I) China		
	(B) Nitrogen fertilizers	(II) Canada		
	(C) Milk	(III) USA		
	(D) Potash fertilizers	(IV) India		
	Choose the <b>correct</b> answer from	the options given below:		
	1. (A) - (I), (B) - (III), (C) - (II), (I 2. (A) - (II), (B) - (III), (C) - (I), (I 3. (A) - (III), (B) - (I), (C) - (IV), ( 4. (A) - (III), (B) - (IV), (C) - (I), (	D) - (IV) (D) - (II)		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
bjective Qu	uestion			<u> </u>
	Atomic spectrum is an example of 1. Line spctra 2. Continuous spectra 3. Line and continuos spectra 4. Band spectra			
	A1:1			
	A2:2			
	A3:3			
	A4:4			
bjective Qu	uestion			
461			4.0	1.00
ll l			colleg India's largest Stu	II.

#### Match List-II with List-II

List-I	List-II
(Isotopes and Radiation)	(Use in Agriculture)
(A) Phosphorus-32	(I) Mutation breeding
(B) Cobalt-60	(II) Photosynthesis
(C) Cesium-137	(III) Food preservation
(D) Carbon-14	(IV) Plant's fertilizer uptake

Choose the correct answer from the options given below:

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (IV), (B) (III), (C) (II), (D) (I)
- 3. (A) (IV), (B) (II), (C) (I), (D) (III)
- 4. (A) (IV), (B) (I), (C) (III), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

## Objective Question

62 462

Arrange with the increasing level of energy required for disruption of soil aggregates:

- (A) Ultrasonic dispersion
- (B) Gently shaking in water
- (C) Dry sieving
- (D) Oxidation of organic matter

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

- 1. (A), (B), (C), (D).
- 2. (D), (B), (A), (C).
- 3. (B), (A), (D), (C).
- 4. (C), (B), (A), (D).
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

63 463



The following are statements on fertilizer N use efficiency of crops. Which statement or the combinations are true?

(A) Partial factor productivity does not account for soil N-supply

4.0	1.00
order.	
	1.00
4.0	
4.0	
4.0	
4.0	
	4.0

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		A2:2		dunia
		A1:1		
		2. Tensiometer 3. Time domain reflectometer 4. Pressure plate/membrane apparatus		
		Soil water matric potential for a wide range of soil wetness can be measured by  1. Resistance blocks		
	ective Qu 467	estion	4.0	1.00
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		3. Fungi 4. Earthworm		
		Bacteria     Nematodes		
66	466	The most abundant soil microorganism is:	4.0	1.00
	ctive Qu	estion		
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		3. (B), (C), (D), (A). 4. (C), (B), (D), (A).		
		1. (A), (B), (C), (D). 2. (D), (C), (B), (A).		
		Choose the <b>correct</b> answer from the options given below:		
		(D) Dairy (liquid)		
		(C) Poultry (solid)		
		(B) Swine (liquid)		
		(A) Dairy (solid)		
		The total N contents in livestock manures are given below. Arrange in decreasing order:		

A4:4 Objective Question 68 468 4.0 1.00 Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Tillage cause sub-surface soil compaction Reason (R): Splashed soil particles clog soil pores 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 469 4.0 1.00 Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Gully erosion occurs when water is channeled across unprotected land and washes away the soil along the drainage lines Reason (R): Devoid of vegetation, inappropriate land use, and compaction of the soil caused by grazing cause gully erosion 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 70 470 4.0 1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).  Assertion (A): Carbon mineralization is tightly coupled to the release of minerals N, P, and S			
		Reason (R): It is driven by microbial requirements for C and nutrients for their maintenance, growth, and the production of extracellular metabolites including enzymes			
		In light of the above statements, choose the <i>correct</i> answer from the options given below.			
		<ol> <li>Both (A) and (R) are true and (R) is the correct explanation of (A).</li> <li>Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</li> <li>(A) is true but (R) is false.</li> <li>(A) is false but (R) is true.</li> </ol>			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Que	estion			
71	471	established the essentiality of Vanadium in microorganisms.	4.0	1.00	
		1. Broyer 1954 2. McCargue 1954 3. Nicholas 1961 4. Thomas & Way 1907			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Que	estion			
72	472	Compounds having common ion but different solubility constants can be separated by  1. Post precipitation  2. Surface attraction	4.0	1.00	
		3. Fractional precipitation 4. Inclusion			
		A1:1			
		A2:2			
		A3:3			
		A4:4	ege	edur	1

	ctive Qu	estion	10	1.00
73	473	Number of replaceable hydroxyl groups in one molecule of a base is  1. Basicity 2. Acidity 3. Reduction 4. Oxidation  A1:1  A2:2  A3:3  A4:4	4.0	1.00
Obie	ctive Qu	estion		
_	474		4.0	1.00
		One I of 1 M H <sub>2</sub> SO <sub>4</sub> containsg of H <sub>2</sub> SO <sub>4</sub> 1. 98 2. 9.8 3. 49 4. 4.9		
		A1:1		
		A2:2 A3:3		
		A4:4		
Obje	ctive Qu	estion		
75	475	Which of the following is <b>not correctly</b> matched component with its function?  (A).Bulk density - Stickiness and Plasticity  (B).Cohesion Attraction of water molecules for each other  (C).Water – Photosynthesis  (D).Consistency - Stickiness and Plasticity  Choose the <b>correct</b> 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.	4.0	1.00
		A2:2		الم

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		A2:2	ا	odunis
		A1:1		
		4. Endpoint		
		Precision     Recision		
		1. Accuracy		
	700	Difference between true value and observed value is	Τ.0	1.00
	ctive Que	estion	4.0	1.00
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		4. Biophile		
		3. Atmosphile		
		2. lithophile		
		1. Siderophile		
/9	4/9	Elements which readily form metallic bonds is	4.0	1.00
	ctive Que	estion	4.0	1.00
		A4:4		
		A3:3		
		A2:2		
		A1:1		
		4. (B), (C) and (D) only.		
		2. (C) only. 3. (A), (B), (C) and (D).		
		1. (A), (B) and (D) only.		
		Choose the <i>correct</i> answer from the options given below:		
		(D).Shrinkage limit		
		(C). Liquid limit		
		(B). Plasticity number		
		The moisture content at which soil ceases to be plastic, becomes semi-fluid and tends to flow like a liquid (A). Plastic limit		
		Company and the second of the		

		li li		
	A4:4			
ctive Qu	estion		4.0	1.00
481	When the original value of N in urea is 46%,the estimated value is 45.5 %, then the absolute error is	•	4.0	1.00
	1. 0.5			
	2. 1.06			
	3. 0.05			
	4. 0.106			
	A1:1			
	A2:2			
	A3:3			
	A4:4			
ctive Qu	estion			
482			4.0	1.00
	The stability sequence of divalent cations in the formation of chelates is:			
	(A). Cu <sup>2+</sup>			
	(B). Ni <sup>2+</sup>			
	(C).Co <sup>2+</sup>			
	(D). Zn <sup>2+</sup>			
	Choose the <b>correct</b> answer from the options given below:			
	1. (A), (B), (C), (D).			
	2. (A), (C), (D),(B)			
	3. (B), (A), (D), (C).			
	4. (C), (B), (D), (A).			
	A1:1			
	A2:2			
	A3:3			
	A4:4			
ctive Qu	estion		1.0	1.00
483	Relationship between plant growth response and addition of growth factor was given by		4.0	1.00
	1. Baule			
	2. Mitscherlich			
	3. Bray			
	4. Liebig			
		colle	ege	20

	I			II.	п
	A1:1				
	A2:2				
	A3:3				
	A4:4				
	A4:4				
ve Que	estion			<u>                                     </u>	
84				4.0	1.
	Arrange the liming material (A).Dolomite	Is based on their decrea	sing neutralizing value of CCE(%)		
	(B).Basic slag				
	(C). Calcite				
	(D).Calcium oxide				
	Choose the <b>correct</b> answer	r from the options given	n below:		
	1. (D), (A), (C), (B).				
	2. (A), (B), (C), (D).				
	3. (B), (A), (D), (C). 4. (C), (B), (D), (A).				
	(0), (0), (0), (1)				
	A1:1				
	AI:I				
	A2:2				
	A3:3				
	A4:4				
ve Que	estion			4.0	1
	Match List-I with List-II			4.0	1
	List-I	List-II			
	Essentaitliy of Nutrients	Authors (I) Sachs & Knon			
	(A).Molybdenum	(I). Sachs & Knop			
	(A).Molybdenum	(I). Sachs & Knop			
	(A).Molybdenum (B).Zinc	(I). Sachs & Knop (II).Preistley			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon	(I). Sachs & Knop (II).Preistley (III). Arnon & Stout (IV).Somner & Lipman			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon  Choose the <b>correct</b> answer	(I). Sachs & Knop  (II).Preistley  (III). Arnon & Stout  (IV).Somner & Lipman  from the options given			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon  Choose the <b>correct</b> answer  1. (A) - (I), (B) - (II), (C) -	(I). Sachs & Knop  (II).Preistley  (III). Arnon & Stout  (IV).Somner & Lipman  from the options given  (III), (D) - (IV)			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon  Choose the <b>correct</b> answer  1. (A) - (I), (B) - (II), (C) - 2. (A) - (II), (B) - (III), (C) - 3. (A) - (I), (B) - (III), (C) -	(I). Sachs & Knop  (II). Preistley  (III). Arnon & Stout  (IV). Somner & Lipman  from the options given  (III), (D) - (IV)  - (IV), (D) - (I)  (IV), (D) - (III)			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon  Choose the <b>correct</b> answer  1. (A) - (I), (B) - (II), (C) - 2. (A) - (II), (B) - (III), (C)	(I). Sachs & Knop  (II). Preistley  (III). Arnon & Stout  (IV). Somner & Lipman  from the options given  (III), (D) - (IV)  - (IV), (D) - (I)  (IV), (D) - (III)			
	(A).Molybdenum  (B).Zinc  (C).Sulphur  (D). Carbon  Choose the <b>correct</b> answer  1. (A) - (I), (B) - (II), (C) - 2. (A) - (II), (B) - (III), (C) - 3. (A) - (I), (B) - (III), (C) -	(I). Sachs & Knop  (II). Preistley  (III). Arnon & Stout  (IV). Somner & Lipman  from the options given  (III), (D) - (IV)  - (IV), (D) - (I)  (IV), (D) - (III)			

A2:2 A3:3 A4:4 Objective Question 86 486 4.0 1.00 Arrange the minerals in the order of increasing weathering index (A).Quartz (B).Gypsum (C).Haematite (D).Allophane Choose the correct answer from the options given below: 1. (A), (B), (C), (D). 2. (A), (C), (B), (D). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). A1:1 A2:2 A3:3 A4:4 Objective Question 87 487 4.0 1.00 Match List-I with List-II List-I List-II Soil characteristics Methods of estimation (A).Gypsum requirement (I). Bouyoucos (B).Soil crust strength (II).Core sampler (C). Bulk density (III). Penetrometer (D). Density of suspension (IV). Schoonover Choose the correct answer from the options given below: 1. (A) - (IV), (B) - (III), (C) - (II), (D) - (I) 2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) A1:1

A3:3  A4:4  Objective Question  Statement (i) Skipfic not in Statements (i) and Statement (ii) and Statement (ii) skipfic not in Statement (iii) skipfic not in Statement (iii) skipfic not in Statement (iii) and Statement (iii)			A2:2		
Additional Companies					
Chipestere Question   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipeste			A3:3		
Chipestere Question   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipeste					
Chipestere Question   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipestere Chipestere   Chipeste			A4:4		
Section   Sect					
Section   Sect	Ohie	ctive One	stion		
Statement (I)-High Cu in soil causes Fe chlorosis in citrus  Statement (II)-Application of potassium increases Mn & Fe content in rice  In light of the above statements.choose the most appropriate answer from the options given below.  1. Both Statement (I) and Statement (II) are fulse. 2. Both Statement (I) and Statement (II) are fulse. 3. Statement (II) is true but Statement (III) is fulse. 4. Statement (II) is fulse but Statement (III) is true.  All: 1  A2: 2  A3: 3  A4: 4  Objective Question  87 (48)  (I) Mitscherlich & Bray  (B) Mitscherlich & Bray  (B) Mitscherlich & Bray  (C) Baule only)  (D) Baule, Armon & Bray  Choose the correct answer from the options given below:  1. (A), (B), (C), (D), 2. (C) only 3. (B), (A), (D), (C), 4. (C), (B), (D), (A).  All: 1  A2: 2  A3: 3  A4: 4  Objective Question				4.0	1.00
Statement (II):Application of potassium increases Mn & Fe content in rice In light of the above statements choose the most appropriate answer from the options given below.  1. Both Statement (I) and Statement (II) are false. 3. Statement (I) the but Statement (II) is false. 4. Statement (I) the but Statement (III) is false. 4. Statement (I) the but Statement (III) is false. 4. Statement (II) is false but Statement (III) is false. 4. Statement (II) is false but Statement (III) is true.  A1 : 1  A2 : 2  A3 : 3  A4 : 4  Objective Opustion  Signature Opustion  (II) Application necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (II) Application (III) Applica			Given below are two statements:		
Statement (II):Application of potassium increases Mn & Fe content in rice In light of the above statements choose the most appropriate answer from the options given below.  1. Both Statement (I) and Statement (II) are false. 3. Statement (I) the but Statement (II) is false. 4. Statement (I) the but Statement (III) is false. 4. Statement (I) the but Statement (III) is false. 4. Statement (II) is false but Statement (III) is false. 4. Statement (II) is false but Statement (III) is true.  A1 : 1  A2 : 2  A3 : 3  A4 : 4  Objective Opustion  Signature Opustion  (II) Application necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (II) Application (III) Applica			Statement (I):High Cu in soil causes Fe chlorosis in citrus		
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 (ii) true but Statement (ii) is false. 4. Statement (ii) is false but Statement (iii) is true.  Al : 1  A2 : 2  A3 : 3  A4 : 4  Objective Question  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by					
1. Both Statement (i) and Statement (iii) are true. 2. Both Statement (i) and Statement (iii) are false. 3. Statement (ii) to state but Statement (iii) is false. 4. Statement (i) is false but Statement (iii) is frue.  Al : 1  A2 : 2  A3 : 3  A4 : 4   Cobjective Question  SO   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that with was applied was given by					
2. Both Statement (i) and Statement (ii) are false. 3. Statement (i) is false but Statement (iii) is false. 4. Statement (i) is false but Statement (iii) is true.  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question  So   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by			In light of the above statements, choose the most appropriate answer from the options given below.		
3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (III) is true.  A1:1  A2:2  A3:3  A4:4  Societive Question  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A). Mitscherlich & Bray  (B). Mitscherlich & Baule  (C). Baule only  (D). Baule, Arnon & Bray  Choose the correct answer from the options given below:  1. (A). (B). (C). (D). 2. (C) only 3. (B). (A). (D). (C). 4. (C). (B). (D). (A).  A1:1  A2:2  A3:3  A4:4			1. Both Statement (I) and Statement (II) are true.		
4. Statement (i) is false but Statement (ii) is true.  A1:1  A2:2  A3:3  A4:4  Objective Question  89  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray  (B).Mitscherlich & Baule (C).Baule only  (D). Baule. Amon & Bray  Choose the correct answer from the options given below:  1. (A). (B). (C). (D). 2. (C) only 3. (B). (A). (D). (C). 4. (C). (B). (D). (A).  A1:1  A2:2  A3:3  A4:4			2. Both Statement (I) and Statement (II) are false.		
A1:1  A2:2  A3:3  A4:4  Objective Question  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A) Mitscherich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question					
Objective Question  89   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by			4. Statement (I) is false but Statement (II) is true.		
Objective Question  89   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by					
Objective Question  89   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by					
A3:3  A4:4  Objective Question  SO 489  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray  (B).Mitscherlich & Baule (C).Baule only  (D). Baule, Amon & Bray  Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4			A1:1		
A3:3  A4:4  Objective Question  SO 489  Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray  (B).Mitscherlich & Baule (C).Baule only  (D). Baule, Amon & Bray  Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4					
Objective Question  89   489			A2:2		
Objective Question  89   489					
Objective Question  89   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray (B).Mitscherlich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1: 1  A2: 2  A3: 3  A4: 4			A3:3		
Objective Question  89   489   Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray (B).Mitscherlich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1: 1  A2: 2  A3: 3  A4: 4					
Sep 489 Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray (B).Mitscherlich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question			A4:4		
Sep 489 Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray (B).Mitscherlich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question					
Sep 489 Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that unit was applied was given by (A).Mitscherlich & Bray (B).Mitscherlich & Baule (C).Baule only (D). Baule, Arnon & Bray Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  Al: 1  A2: 2  A3: 3  A4: 4  Objective Question	Obje	ctive Que	stion		
unit was applied was given by  (A).Mitscherlich & Bray  (B).Mitscherlich & Baule  (C).Baule only  (D). Baule, Arnon & Bray  Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question				4.0	1.00
unit was applied was given by  (A).Mitscherlich & Bray  (B).Mitscherlich & Baule  (C).Baule only  (D). Baule, Arnon & Bray  Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question			Growth factor necessary to produce yield that is 50% of the difference between maximum possible yield and yield before that		
(A),Mitscherlich & Bray (B),Mitscherlich & Baule (C),Baule only (D), Baule, Arnon & Bray Choose the correct answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4					
(C).Baule only (D). Baule, Arnon & Bray Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4					
(C).Baule only (D). Baule, Arnon & Bray Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4			(D) 1   1   1   0   D   1		
(D). Baule, Arnon & Bray  Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4			(B).Mitscherlich & Baule		
Choose the <b>correct</b> answer from the options given below:  1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4			(C).Baule only		
1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question			(D). Baule, Arnon & Bray		
1. (A), (B), (C), (D). 2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question			Choose the <b>correct</b> answer from the options given below:		
2. (C) only 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question					
3. (B), (A), (D), (C). 4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4					
4. (C), (B), (D), (A).  A1:1  A2:2  A3:3  A4:4  Objective Question					
A1:1 A2:2 A3:3 A4:4  Objective Question					
A2:2 A3:3 A4:4  Objective Question					
A2:2 A3:3 A4:4  Objective Question					
A3:3 A4:4  Objective Question			A1:1		
A3:3 A4:4  Objective Question					
A4:4  Objective Question			A2:2		
A4:4  Objective Question					
A4:4  Objective Question			A3:3		
Objective Question					
Objective Question			A4:4		
Objective Question  90   490   4.0   1.00.					
90   490   4.0   1.00.	Ohi-	ctive O	stion		
				4.0	1.00

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4.0	1.00

#### Match List-I with List-II

List-I	List-II
Theory proposed	Author
(A).Stokes law	(I). Schofield and Taylor
(B).Baule unit	(II).Puri
(C). Lime potential	(III). Stokes
(D). Salt index	(IV).Baule

Choose the correct answer from the options given below:

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

93 493

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

Assertion (A): Weathering produces minerals which is assigned with a weathering index

Reason (R): The sequence of weathering is largely controlled by intensity and capacity factor as a fraction of time

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

94 494

4.0 | 1.00

#### Match List-II with List-II

List-I	List-II
Soil structure	Ratings
(A). Structureless	(I). 2
(B). Moderate	(11).3
(C). Weak	(111). 0
(D). Strong	(IV).1

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (III), (C) (I), (D) (IV)
- 2. (A) (I), (B) (II), (C) (III), (D) (IV)
- 3. (A) (I), (B) (II), (C) (IV), (D) (III)
- 4. (A) (III), (B) (I), (C) (IV), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

# Objective Question

95 495 Boron regulates

- (A).Ribosomal fraction
- (B). Translocation of sugars
- (C).Carbohydrate metabolism
- (D).Calcium metabolism

Choose the correct answer from the options given below:

- 1. (A), (B) and (C) only.
- 2. (A), (B) and (D) only.
- 3. (A), (B), (C) and (D).
- 4. (B), (C) and (D) only.
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

96 496

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		Lecithin is the common name of:  1. Phosphatidyle ethanolamine 2. Phaphatidyle choline 3. Phosphatidyl Serine 4. Phasphatidyl Inositol  A1:1  A2:2  A3:3		
	ctive Que	estion	4.0	1.00
97	497	All of the following are storage carbohydrates except:  1. Starch 2. Glycogen 3. Cellulose 4. Amylase	4.0	1.00
		A1:1 A2:2 A3:3 A4:4		
Obje	ctive Que	estion		
	498	Which of the following can have a quaternary structure:  1. Fatty acid 2. Protein 3. Polysaccharide 4. RNA  A1:1  A2:2  A3:3  A4:4	4.0	1.00
	ctive Que	estion		
	499	coll	4.0 <b>eg</b>	

		All the following molecules contain more than one ring except:		
		1. Cholesterol		
		2. Sucrose		
		3. Glucose		
		4. Progesterone		
		1. Progesterone		
		A1:1		
		A2:2		
		A3:3		
		AJ.J		
		A4:4		
	ctive Que	estion		14.00
100	500		4.0	1.00
		Which one of the following is a nucleoside?		
		1. Purine + Pyrimidine		
		2. Pyrimidine + Phosphate group		
		3. Purine + Phosphate group		
		4. Pyrimidine + Pentose sugar		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ohie	ctive Que	betion		
101		5401	4.0	1.00
		Given below are two statements, one is labeled as Assertion (A), and the other one is labeled as Reason (R).		
		Assertion (A): Alcohols are weaker acids than water.		
		Reason (R): Water is a better proton donor than alcohol.		
		In light of the above statements, choose the <i>most appropriate</i> 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		
		AZ . Z		
		A3:3		
		A4:4		
			_	۱

	ctive Que	estion		
102	502		4.0	1.00
		Given below are two statements, one is labeled as Assertion (A), and the other one is labeled as Reason (R).		
		Assertion (A): 2 Proline is an aromatic amino acid as it has a ring structure.		
		5		
		Reason (R): Aromatic amino acids have a benzene ring of its derivative side chain structures.		
		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		
Obje	ctive Que	estion		
	503		4.0	1.00
		Die back of citrus is due to deficiency of:		
		ble back of cities is due to deficiency of.		
		1. Iron		
		2. Manganese		
		3. Copper		
		4. Boron		
		4. BOTON		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Que	estion		
	504		4.0	1.00
		Chilling resistant plants have more percentage of:		
		1. Saturated fatty acids		
		2. Unsaturated fatty acids		
		3. Palmitic acid		
		4. Stearic acid		
		1. Deaths acid		
		A1:1		
		   A2 : 2		
		112.12		
		A3:3		
		A4:4		
		A4:4	ρσ	du

bjective Q	uestion		10.00
5 505	A useful measure of the photosynthetic efficiency of plants is:  1. Relative Growth Rate 2. Absolute Growth Rate 3. Cumulative growth Rate 4. Net Assimilation Rate  A1:1  A2:2  A3:3  A4:4	4.0	1.00
jective Q	nestion		
06 506	Which of the following statements is correct?  (A). Allosteric enzymes don't obey Michaelis mentioned kinetics  (B). Some regulatory enzymes are modulated by reversible covalent modification  (C). Allosteric enzymes undergo reversible covalent modification  (D). Reversible covalent modification caused by phosphorylation  Choose the <i>correct</i> answer from the options given below:  1. (A) and (B) only. 2. (A), (B) and (C) only. 3. (A), (B) and (D). 4. (A), (B), (C) and (D)  A1:1  A2:2  A3:3  A4:4	4.0	1.00
bjective Qt 07 507	coll	eg	edu

# Match List-I with List-II

List-I	List-II	
(Growth Parameter)	(Unit)	
(A). Leaf Area Duration (LAD)	(I). cm <sup>2</sup> d <sup>-1</sup>	
(B). Crop Growth Rate (CGR)	(II). g m <sup>-2</sup> day <sup>-1</sup>	
(C). Leaf Area Ratio (LAR)	(III). m <sup>2</sup> g <sup>-1</sup>	
(D). Net Assimilation Rate (NAR)	(IV). g m <sup>-2</sup> day <sup>-1</sup>	

Choose the correct answer from the options given below:

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

108 508

(A). Enzymes enhance reaction rate by a factor of 2 to 10 (B). Activation energy of a reaction is lowered by enzymes

(C). Interactions between enzymes and substrates are hydrogen, ionic and hydrophobic bonds

(D). Substrate concentration does not affect the rate of enzyme-catalyzed reactions

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

109 509

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4.0 1.00

List-I	List-II	
(Coenzyme)	(Chemical group transfers)	
(A). Coenzyme A	(I). Aldehyde group	
(B). Flavin adenine dinucleotide	(II). Amino group	
(C). Pyridoxalphosphate	(III). Hydrogen atoms	
(D). Thymine pyrophosphate	(IV). Acyl groups	

Choose the correct answer from the options given below:

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (II), (B) (I), (C) (IV), (D) (III)
- 3. (A) (III), (B) (IV), (C) (II), (D) (I)
- 4. (A) (IV), (B) (III), (C) (II), (D) (I)
- A1:1
- A2:2
- A3:3
- A4:4

Objectiv	e Oue	stion
o ojecu.	e Que	buon

110 510

Indicate which pair of sugars consist of epimers

- (A). D-glucose and D-mannose
- (B). D-Ribose and D-ribulose
- (C). D-galactose and D-glucose
- (D). D-glyceraldehyde and Dihydroxyacetone

Choose the correct answer from the options given below:

- 1. (B) and (D)
- 2. (A) and (C)
- 3. ((A) and(D).
- 4. (C) and (D)
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

111 511

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	Which statement about M-phase cyclin is correct		
	Cyclin synthesis and destruction is essential for cell cycle progression		
	Cyclin synthesis and no destruction is essential for cell cycle progression		
	3. Cyclins play no role in cell cycle progression		
	4. No Cyclin synthesis and no destruction is essential for cell cycle progression		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
	Question		
512		4.0	1.00
	Endosulphan belongs to group:		
	1. Organochlorine		
	2. Organophasphorus		
	3. Carbamate		
	4. Cyclodiene		
	A1:1		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
ctive (	Question		
513		4.0	1.00
	Contaf" is a trade name of:		
	1. Hexaconazole		
	2. Propiconazole		
	Propiconazole     Imidacloprid		
	2. Propiconazole 3. Imidacloprid 4. Cyhalothrin		
	3. Imidacloprid		
	3. Imidacloprid		
	3. Imidacloprid 4. Cyhalothrin		
	3. Imidacloprid 4. Cyhalothrin A1:1 A2:2		
	3. Imidacloprid 4. Cyhalothrin A1:1		
	3. Imidacloprid 4. Cyhalothrin A1:1 A2:2		
ctive (	3. Imidacloprid 4. Cyhalothrin  A1:1  A2:2  A3:3		
sective 6	3. Imidacloprid 4. Cyhalothrin  A1:1  A2:2  A3:3  A4:4	4.0	1.00

Options 1-4 are the different combinations of botanical pesticides. Which combination is a correct representation of the botanical pesticide Cinerin -II

- 1. Chrysanthemic acid + cinerolone
- 2. Pyrethric acid + cinirolone
- 3. Chrysanthemic acid + Pyrathrolone
- 4. Pyrethroic acid + Pyrethrolone
  - 1. Option 1 is a correct representation of the botanical pesticide Cinerin -II
  - 2. Option 2 is a correct representation of the botanical pesticide Cinerin -II
  - 3. Option 3 is a correct representation of the botanical pesticide Cinerin -II
  - 4. Option 4 is a correct representation of the botanical pesticide Cinerin -II
- A1:1
- A2:2
- A3:3
- A4:4

# Objective Question

115 515

Match	List-I	with	List-II

Column-A

(A). Principle of Pescticide Chemistry

(B). Albendazol

(C). trans-10-cis-12-hexadecadienol

(D). 2,4-D

(Ist-II

(II). Herbicide

(III). Acaricide

(IV). S.K. Handa

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

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (II), (B) (I), (C) (III), (D) (IV)
- 3. (A) (IV), (B) (II), (C) (III), (D) (I)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

116 516



Find out the correct match (s)

		(A). Dichlorovos – Weedicide		
		(B). Acephate – systemic Insecticide		
		(C). Benzyl benzoate - repellent		
		(D). 2 4-d – Weedicide		
		Choose the <i>correct</i> answer from the options given below:		
		A is correctly matched B, C and D are not correctly matched     A is incorrectly matched B, C and D are correctly matched		
		3. A, B, C and D are correctly matched		
		4. A, B, C and D are incorrectly matched		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Que	estion		
117	517	Which statement is correct for the following structures 1 and 2?	4.0	1.00
		Statement (I): Black gram as a cover crop to reduce surface runoff and soil loss during rainy seasons.		
		Statement (II): Black gram as a live mulch crop to reduce surface runoff and soil loss during rainy seasons.		
		In light of the above statements, choose the most appropriate answer from the options given below.		
		Both 1 and 2 are synthetic pesticides and are environmental friendly     Compound 1 is plant originated while compound 2 is synthetic and persists for a long time in the environment		
		3. Compound 1 is derived from the carbamate group while compound 2 is organochlorine		
		4. Due to puckered structure compound 2 is degraded fast while compound 1 in active		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ohie	ctive Que	ection		
	518	- — — — — — — — — — — — — — — — — — — —	4.0	1.00
		Example of a secondary pollutant is:		
		1. CFCS's		
		2. CH <sub>4</sub>		
		3. PAN 4. CO		
				dunia
	 	A1:1		1 11

17/2	0, 4.00 1	W		
		A2:2		
		A3:3		
		A4:4		
01:			L	
Obje	ctive Que		1.0	1.00
119			4.0	1.00
		Trees and shrubs commonly planted in rows at right angles to the prevailing winds are called:		
		1. Shelterbelts		
		2. Terrace cultivation		
		3. Strip cropping .		
		4. Mulching		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obie	ctive Que	stion		
120			4.0	1.00
		The Environment Protection Act was enacted in the year:		
		1. 1988		
		2. 1981		
		3. 1986		
		4. 1987		
		A1:1		
		A2:2		
		A3:3		
		A4:4		

