PREVIEW QUESTION BANK

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

Sr. Vo.	Client	Question ID	Question Body and Alternatives Ma	rks	Neg Ma	ative irks
	ive Que	estion		1	1.0	1.00
		Wate	r use efficiency in increasing order		r.U	1.00
		(A)	Surface Irrigation			
		(B)	Sprinkler Irrigation			
		(C)	Drip Irrigation			
		(D)	Pitcher pot Irrigation			
		Choo	se the <i>correct</i> answer from the options given below:			
		1.	(A), (B), (C), (D).			
		2.	(D), (C), (A), (B).			
		3.	(B), (A), (D), (C).			
		4.	(C), (B), (D), (A).			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
	ive Que	estion		1/4	1.0	1.00
						1.00
			~1/AppData/Local/Temp/Rar\$EXa24348.39550/172 B1 Live PHYSICALSCIENCE 1-120.html	lle	ge	edu

	List-I (Nature of reaction)	List-II (Nature of the process)
(A)	Reduction of iron in waterlogged soil	(I) Argillation
(B)	Leaching of dispersed particles	(II) Podsolisation
(C)	Intermixing of soil horizon	(III) Gleisation
(D)	Eluviation of oxides of Fe, Al & Humus	(IV) Pedoturbation

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

Given below are two statements:

Statement (I): Saline soil has the characteristics of EC > 4 ds/m, ESP > 15, and pH < 8.5

Statement (II): Alkaline soils have the characteristics of EC > 4 ds/m, ESP < 15, and pH > 8.5

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



7/10/23, 12:14 PM

Objective Question

A4:4

1.

2.

3.

4.

Sandy clay

Silty loam

Loamy sand

Clayey

List-I (Method)			List-II (Estimation)
(A)	Kjeldahl method	(I)	Estimation of Soil moisture
(B)	Walkley & Black method	(II)	Estimation of Sedimentation of soil particals
(C)	Hydrometer method	(III)	Estimation of Organic Carbon
(D)	Gravimetric method	(IV)	Estimation of Nitrogen

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

A1:1

A2:2

A3:3

A4:4

Ob	iective	Question
o	CCLIVC	Question

Identify the copper-containing minerals.

4.0 1.00

- (A) Covellite
- (B) Azurite
- (C) Powellite
- (D) Limonite

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

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



		A2:2			
		A3:3			
		A4 : 4			
Obje	ctive Qu	estion			
8	508		re two statements, one is labeled as Assertion (A) and the other one is on (R).	4.0	1.00
		Assertion (A):	The organochlorine pesticides accumulate in the fatty tissues in the human body.		
		Reason (R):	Organochlorine pesticides are chemically unstable and hydrophobic.		
		In light of the a given below.	above statements, choose the <i>most appropriate</i> answer from the options		
		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 correct explanation of (A).		
		3. (A) is co	orrect but (R) is not correct.		
		4. (A) is no	ot correct but (R) is correct.		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Qu	estion			
9	509		ollowing method likely to be used where the water supply is limited and e of the crop is high?	4.0	1.00
		1. Sprinkle	er irrigation		
		2. Drip irri	gation		
		3. Furrow	irrigation		
		4. Surface	irrigation		
		A1:1			
		A2:2			
		A3:3			
		A4:4			

	e Question			
510	Planta	ation of high water - consuming for withdrawal of ground water is term as:	4.0	1.00
	1.	Surface drainage		
	2.	Bio drainage		
	3.	Sub surface drainage		
	4.	Mole drainage		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
ective	e Question			
511	The v	vord soil has been derived from.	4.0	1.00
	1.	French		
	2.	Latin		
	3.	Greek		
	4.	Arabic		
	A1:1			
	A2:2			
	A3:3			
	A4 : 4			
jective	e Question			
512			4.0	1.00
		k		
		co	llego s largest Stud	edui
/C:/U:	sers/ADMINI~	-1/AppData/Local/Temp/Rar\$EXa24348.39550/172_B1_Live_PHYSICALSCIENCE_1-120.html	s largest Stud	lent Review 6/6

(Naı	List-I ne of Scientist)		List-II (Discovered)
(A)	James Wilson	(I)	Nitrogen-fixing bacteria
(B)	Winogradsky	(II)	Host plant resistance
(C)	R.H. Painter	(III)	Hybrid wheat
(D)	S.S. Bains	(IV)	Relay 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) (III), (B) (I), (C) (II), (D) (IV)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)

A1:1

A2:2

A3:3

A4:4

Objective Question

13 513

Match List-II with List-II

4.0 1.00

List-I (Name of Author)			List-II (Name of Book)
(A)	Rachel Carson	(I)	Elements of Agricultural Chemistry
(B)	Humphrey Davy	(II)	Natures of plant
(C)	Theophrastus	(III)	Soil Genesis and classification
(D)	S. Buol	(IV)	Silent Spring

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

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- $2. \qquad (A) (IV), (B) (I), (C) (II), (D) (III)$
- 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			
Ohie	ctive Qu	estion			
	514		science that deals with soil genesis and classification is called as:	4.0	1.00
		1.	Petrology		
		2.	Pedology		
		3.	Pedagology		
		4.	Petrography		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ctive Qu 515			4.0	1.00
		Dise	ases occurring due to Ca deficiency are		
		(A)	Hollow heart in Groundnut		
		(B)	Frenching of Citrus		
		(C)	Pod popping in Groundnut		
		(D)	Pillowing of Cucumber		
		Choo	ose the <i>correct</i> answer from the options given below:		
		1.	Only (A) and (B)		
		2.	Only (B) and (C)		
		3.	Only (A) and (D)		
			ACCOUNTY OF THE CONTRACT OF TH		
		4.	Only (C) and (D)		
		4.	Only (C) and (D)		
		4. A1:1	Only (C) and (D)		
			Only (C) and (D)		

		A3:3		
		A4:4		
Obje	ctive Qu	estion		
16	516	Which are the fundamental soil-forming process ?	4.0	1.00
		(A) Eluviation		
		(B) Illuviation		
		(C) Laterization		
		(D) Humification		
		Choose the <i>correct</i> 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		
Obje	ctive Qu	estion		
17	517	Suppose roots, straw, and grains of a wheat crop produce dry matter of 2.5 t/ha, 6 t/ha, and 4 t/ha containing 0.2%, 0.5%, and 1.5% N, respectively. How much total N uptake by the above-ground portion?	4.0	1.00
		1. 30 kg/ha		
		2. 60 kg/ha		
		3. 90 kg/ha		
		4. 120 kg/ha		
		A1:1		
		A2:2		
		A3:3		
		A4:4		الم

Objective Question

18 518

Match List-I with List-II

4.0 1.00

	List-I	List-II
	Instrument	Used for Measurement of
(A)	Liquid Limit Device	(I) Wind speed
(B)	Pycnometer	(II) Soil Plasticity
(C)	Beufort scale	(III) Depth of water table
(D)	Piezometer	(IV) Specific Gravity of soil

Choose the correct answer from the options given below:

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

19 519

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

4.0 1.00

Assertion (A): Bacillus megaterium is an efficient P-solubilizing bacteria.

Reason (R): Bacillus megaterium produces different organic acids for dissolution.

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.



			A2:2		
			A3:3		
			A3.3		
			A4:4		
	Obie	ctive Qu	estion		
- 15		520		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): Humic acids are more resistant than fulvic acid.		
			Reason (R): Humic acids have low molecular weight and simple structure than fulvic acids.		
			In light of the above statements, choose the <i>correct</i> answer from the options given below.		
			1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
			2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).		
			3. (A) is true but (R) is false.		
			4. (A) is false but (R) is true.		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
	Ohie	ctive Qu	estion		
- 15		521		4.0	1.00
			colle	200	du

	(C) Chemiosmosis theory		
	(D) Sugar-amine condensation theory		
	Choose the <i>correct</i> answer from the options given below:		
	1. (A), (B) and (D) only.		
	2. (A), (C) and (D) only.		
	3. (A), (B) and (C) only.		
	4. (B), (C) and (D) only.		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
biective	Question		
522	The Strategic Research Extension Plan (SREP) is related with	4.0	1.00
	National Institute of Agriculture Extension Management (MANAGE).		
	2. Agriculture Technology Information Centre (ATIC).		
	3. Agriculture Technology Management Agency (ATMA).		
	4. National Bank for Agricultural & Rural Development (MABARD).		
	4. National Bank for Agricultural & Rural Development (MABARD). Al:1		
	A1:1		
	A1:1 A2:2		
	A1:1 A2:2 A3:3		

The characteristics of the Plinthite horizon are

- (A) It is rich in humus
- (B) It is rich in sesquioxide
- (C) Presence of yellowish or greyish mottles
- (D) Hardens reversibly due to repeated wetting and drying

Choose the correct answer from the options given below:

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

Objective Question

24 524

Match List-II with List-II

4.0 1.00

List-I	List-II			
(Land Capability Classes)	(Colour)			
(A) Class II	(I) Green			
(B) Class IV	(II) Yellow			
(C) Class III	(III) Brown			
(D) Class I	(IV) Pink			

Choose the correct answer from the options given below:

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



A2:2
A3:3
A4:4

Objective Question

25 525

Match List-II with List-II

4.0 1.00

List-I	List-II
(Soil Moisture Regime)	(Mean Annual Soil Temperature)
(A) MESIC	(I) 15° C to $< 22^{\circ}$ C
(B) THERMIC	(II) 8° C to $< 15^{\circ}$ C
(C) HYPERTHERMIC	(III) 28° C or more
(D) MEGHATHERMIC	(IV) $22^{\circ} \text{C to} < 28^{\circ} \text{C}$

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

A1:1

A2:2

A3:3

A4:4

Objective Question

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

Assertion (A): Universal Soil Loss Equation A= RKLSCP

Reason (R): Universal soil loss 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

27 527

Match List-I with List-II

4.0 1.00

List-I			List-II		
(A)	Land use	(I)	Cover crop		
(B)	C: N ratio	(II)	Hilly areas		
(C)	Landslide	(III)	Mineralization and immobilization		
(D)	Soil and water conservation	(IV)	Soil capability classification		

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

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

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

A1:1

A2:2



A3:3
A4:4

Objective Question

28 528

Match List-II with List-II

4.0 1.00

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

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
29 | 529 |

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

Assertion (A): Water requirement for wheat crops varies from 300 to 600 mm.

Reason (R): Water requirement varies depending on the soil type and rainfall and variety.

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	e Ouesti	on

30 | 530 |

- (i) Very dark, cracking clay-dominated soils; (ii) locally called regur, karail, and bhal; (iii) high clay varying from 30-60%, base-rich; (iv) occur in Maharastra, Madhya Pradesh., Gujarat, Rajasthan, Chhattisgarh and some parts of Karnataka and T.N. is called
- (A) Black Soils
- (B) Alluvial Soils
- (C) Red Soils
- (D) Laterite and Lateritic Soils

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

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

A1:1

,		172_51_E146_111161671E561E146E_11126.11d11		
		A2:2		
		A3:3		
		A4:4		
	ective Qu	estion	140	1.00
31	531	Objective of GIS	4.0	1.00
		(A) Maximizing the efficiency of planning and decision-making.		
		(B) Providing efficient means for data distribution and handling.		
		(C) Elimination of redundant database - minimize duplication.		
		(D) Capacity to integrate information from many sources.		
		Choose the <i>most 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	ective Qu	estion		
32	532	Given below are two statements, one is labelled as Assertion (A) and the other one is labelled as Reason (R).	4.0	1.00
		Assertion (A): The notation of Munsell colour chart is 2.5YR5/6.		
		Reason (R): Because hue is 2.5 YR, value is 5 and chroma is 6		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
		2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).		
		3. (A) is true but (R) is false.		
		4. (A) is false but (R) is true.	ege	edu

		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Qu	estion			<u> </u>
	533		Water Content increasing order	4.0	1.00
		(A)	field capacity		
		(B)	Oven dry		
		(C)	Hygroscopic		
		(D)	Permanent wilting		
		Choo	ose the <i>correct</i> answer from the options given below:		
		1.	(A), (B), (C), (D).		
		2.	(B), (C), (D), (A).		
		3.	(B), (A), (D), (C).		
		4.	(C), (B), (D), (A).		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obje	ctive Qu	estion			
	534			4.0	1.00
			colle	904	du

List-I (Institutes)			List-II
		(Headquarts)	
(A)	IISS	(I)	Hyderabad
(B)	IIHR	(II)	Bangalore
(C)	CRIDA	(III)	Jodhpur
(D)	CAZRI	(IV)	Bhopal

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

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

A1:1

A2:2

A3:3

A4:4

Ohioo	tivo	Question
Objec	uve	Question

The characteristics of Imogolite are

4.0 1.00

- (A) They are found in Andisol
- (B) They have low bulk density and high plasticity
- (C) They have a high Potassium fixation capacity
- (D) They are paracrystalline in nature

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

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



Unit of Mixing Ratio is

- 1. %
- $2. kg/m^3$
- 3. kg/kg
- 4. m^3/m^3
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

39 539

Match List-II with List-II

4.0 1.00

List-I (Soil parameters)		List-II
		(Measurement)
(A)	Bulk Density	(I) C1 ³⁶
(B)	Soil water content	(II) C ¹³
(C)	Seepage	(III) H ²
(D)	Soil salinity	(IV) Am-Be
(E)	Soil aggregation	(V) Cs ¹³⁷

Choose the $\it correct$ answer from the options given below:

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

Objective Question

40 | 540

		What	is the average life of a radioactive element whose half-life of 30 days?		
		1.	60.03		
		2.	15.21		
		3.	20.79		
		4.	43.29		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ective Qu	estion			
41	541	Which	of the following is a representation of vector map?	4.0	1.00
		(a) Po	int, (b) Pixel, (c) Polygon		
		1.	(a) only		
		2.	(b) only		
		3.	(a) and (b) only		
		4.	(a) and (c) only		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
	ective Qu	estion			
42	542			4.0	1.00
			coll	∥ eσ	dunia
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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) C1	(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

	o			_		
К)hı	Iec1	11VP	()ı	1001	ion

43 543

Water has Maximum density at temperature	
1. 273 ⁰ K	
$^{\circ}$ 2. 277 $^{\circ}$ K	
3. 289 ⁰ K	
4. 298 ⁰ K	
A1:1	
A2:2	
A3:3	
A4:4	

Objective Question

44 ||5

		Norma	alized Difference Vegetation Index to monitor crop health is determined from		
		1.	Reflectance of red band		
		2.	Reflectance of blue and red band		
		3.	Reflectance of shortwave and red band		
		4.	Reflectance of near-infrared and red band		
		(305A			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obie	ctive Qu	estion			
	545		al movement of air and heat from earth surface to the atmosphere is	4.0	1.00
		1.	Convection		
		2.	Conduction		
		3.	Advection		
		4.	Sublimation		
		A1:1			
		ALLI			
		A2:2			
		A3:3			
		A4:4			
	ctive Qu 546			4.0	1.00
		Traini	ng dataset is used to identify desired features in remote sensed images in		
		1.	Supervised classification method		
		2.	Self-learning image analysis method		
		3.	Classification using manually		
		4.	Un-supervised classification method		
		A1:1			
		AI.I			
		A2:2			
		A3:3			
		A4 : 4		colleg	adupia:
∥ ile:///C	:/Users	l	1/AppData/Local/Temp/Rar\$EXa24348.39550/172_B1_Live_PHYSICALSCIENCE_1-120.html	India's largest Stu	11 11

-	e Question		10	1.00
547	The e	quation governing flow of water in saturated soil is	4.0	1.00
	1.	Poiseuille's equation		
	2.	Bernoulli equation		
	3.	Darcy's equation		
	4.	Navier-Stokes equation		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
)biectiv	e Question			
8 548		apillary rise in soil (h, cm) with average pore radius (r, cm) is related as	4.0	1.00
	1.	hr = 0.15		
	2.	hr= 1.5		
	3.	hr = 0.30		
	4.	hr = 3.0		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
	e Question			
9 549	The v	value of tortuosity in soil is	4.0	1.00
	1.	0		
	2.	<1		
		>1		
	4.	1		
	A1:1			
	A2:2			
	A3:3		college	du
///C:/U	sers/ADMINI	-1/AppData/Local/Temp/Rar\$EXa24348.39550/172_B1_Live_PHYSICALSCIENCE_1-120.html	India's largest Stude	ent Revie

A4:4

Objective Question

50 550

The term "Infiltrability" is coined by

4.0 1.00

- 1. Robert E. Horton
- 2. Daniel Hillel
- 3. J.R. Philip
- 4. Green, W. H., and G. A. Ampt
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

51 | 551

Match List-II with List-II

4.0 1.00

	List-I		List-II			
Pl	nysical parameter	Unit				
(A)	Surface tension	(I)	Kilogram per cubic meter			
(B)	Viscosity	(II)	Newton per meter			
(C)	Soil permeability	(III)	Meter per hour			
(D)	Particle density	(IV)	Pascal			
(E)	Soil water potential	(V)	Pascal-second			

Choose the correct answer from the options given below:

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

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II		П	П
	A4:4		
ective Q		4.0	1.
	The soil hydraulic head is expressed by		
	(A) Potential energy per unit mass of soil water		
	(B) Potential energy per unit volume of soil water		
	(C) Potential energy per unit weight of soil water		
	(D) Height of standing water on the soil surface		
	Choose the <i>correct</i> answer from the options given below:		
	1. (D) only.		
	2. (A) and (C) only.		
	3. (B) and (C) only.		
	4. (C) only.		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
ective Q	puestion		L
553	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	4.0	1.
	Assertion (A): Soil clay has maximum influence on soil behavior.		
	Reason (R): Clay has greater surface area per unit mass and is most physicochemical active.		
	In light of the above statements, choose the <i>correct</i> answer from the options given below.		
	1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
	2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).		
	3. (A) is true but (R) is false.		
	4. (A) is false but (R) is true.		
	A1:1		
			\ .

		A2:2			
		A3:3			
		A4:4			
	tive Que	estion			
54	554	Arrai	nge the following soil texture with decreasing field capacity water content.	4.0	1.00
		(A)	Sandy loam		
		(B)	Sandy		
		(C)	Silty loam		
		(D)	Clay		
		(E)	Clay loam		
		Choo	se the <i>correct</i> answer from the options given below:		
		1.	(A), (B), (C), (D), (E)		
		2.	(A), (C), (D), (E), (B)		
		3.	(B), (A), (C), (E), (D).		
		4.	(D), (E), (C), (A), (B)		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Objec	ctive Que	estion			
55	555			4.0	1.00
					۱

Given below are two statements:

Statement (I): Alluvial soils are the largest group of soils in India.

Statement (II): Alluvial soils are rich in nitrogen but deficient in potassium.

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.
- 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

56 | 55

Given below are two statements:

4.0 1.00

- **Statement (I):** At field capacity matric potential, the soil water content is higher when dry soil is getting wet.
- **Statement (II):** The drying of soil depends on the narrow radii of the connecting channels, whereas the wetting process depends on large pore diameters.

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

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Objective Question

6.5			T.	12
57	557	Microwave remote sensing is useful in monitoring	4.0	1.00
		(A) Soil moisture		
		(B) Canopy structure		
		(C) Snow cover		
		(D) Moisture profiling in the atmosphere		
		(E) Ocean circultion		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (B), (C) and (D) only.		
		3. (A), (B), (C) and (D) only.		
		4. (A), (B), (C) and (D) and (E).		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
01:				
	558	estion	4.0	1.00

	List-I		List-II
	(Book etc.)		(Author, etc.)
(A)	Soil Physics	(I)	Sehgal
(B)	A Text Book on Pedology	(II)	Bahl and Bahl
(C)	A Text Book on Organic Chemistry	(III)	Chakraborty and Sahoo
(D)	Fundamentals of Geographic Information System	(IV)	Ghildyal and Tripathi

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

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

Ohie	ctive	Onect	ion

Arrange the following minerals in terms of increasing stability

4.0 1.00

- (A) Biotitie
- (B) Quartz
- (C) Hornblende
- (D) Muscovite

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

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



		A2:2			
		A3:3			
		A4:4			
Ohie	ective Qu	estion			
	560			4.0	1.00
		Arra potei	nge the following atmospheric gases in terms of increasing global warming		
		(A)	CH_4		
		(B)	N_2O		
		(C)	CO_2		
		(D)	SF_6		
		Choo	ose the <i>correct</i> answer from the options given below:		
		1.	(C), (A), (B), (D).		
			(B), (A), (C), (D).		
		3.	(A), (B), (D), (C).		
		4.	(C), (B), (D), (A).		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
_	ective Qu	estion			
61	561			4.0	1.00

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

Assertion (A): The sky is blue due to scattering of sunlight.

Reason (R): The sky reflects the sea and ocean, which are blue.

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

62 | 562

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

4.0 1.00

- **Assertion** (A): Raster data is obtained from satellite images, aerial cameras, and scanned maps.
- **Reason (R):** Georeferencing allows you to viewed, query, and analyze raster data with other geographic data.

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

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

A1:1

A2:2

A3:3

A4:4

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563	tion		
	Sequence the steps for georeferencing a map in QGIS	4.0	1.0
	(A) Select transformation type		
	(B) Open the image to be georeferenced		
	(C) Open the map that you want to georeference		
	(D) Find ground control points		
	Choose the <i>correct</i> 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).		
1	A1:1		
1	A2:2		
1	A3:3		
1	A4:4		
tive Ques	tion		
564	Given below are two statements, one is labelled as Assertion (A) and other one labelled	4.0	1.0
	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).		
	as Reason (R). Assertion (A): Primary objective of summer ploughing is opening of the soil crust		
33	as Reason (R). Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath		
20 20 20	Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath Reason (R): It facilitates to sow the crops immediately after onset of monsoon In light of the above statements, choose the <i>correct</i> answer from the options given		
	Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath Reason (R): It facilitates to sow the crops immediately after onset of monsoon In light of the above statements, choose the <i>correct</i> answer from the options given below.		
	Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath Reason (R): It facilitates to sow the crops immediately after onset of monsoon 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).		
	Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath Reason (R): It facilitates to sow the crops immediately after onset of monsoon In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).		
	Assertion (A): Primary objective of summer ploughing is opening of the soil crust and turn the soil underneath Reason (R): It facilitates to sow the crops immediately after onset of monsoon In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false.		

		A3:3		
		A4:4		
	ctive Qu			
65	565	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	4.0	1.00
		Assertion (A): Sentinel satellite mission is one of the European Space Agency's next-generation earth-observation missions.		
		Reason (R): There are six Sentinel satellites which provide free data to the user.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
		2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).		
		3. (A) is correct but (R) is not correct.		
		4. (A) is not correct but (R) is correct.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ohie	ctive Qu	estion		
66	566		4.0	1.00
		colle	206	du

Match List-I with List-II

	List-I		List-II	
(Characteristic)		(Terminology)		
(A)	Si ⁴⁺ is replaced by Al ³⁺ ions	(I)	Ionic double layer	
(B)	Attachment of Ca ²⁺ on clay surface	(II)	pH dependent charge	
(C)	Na ⁺ replacing other cations on clay surface	(III)	Dispersion of clay	
(D)	H dissociated from hydroxyl ions on clay surface	(IV)	Isomorphous substitution	

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

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

A1:1

A2:2

A3:3

A4:4

01:4:	0-	4:
Objecti	ve Qı	iestion

67 567

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

4.0 1.00

Assertion (A): Crop residue on soil surface in conservation tillage systems can decrease the rate of soil temperature change.

Reason (R): Surface residue increases the reflection of incident solar radiation.

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		
Obj	ective Qu	estion		
68	568	Arrange the following space mission (earlier to most recent)	4.0	1.00
		(A) Radar Imaging Satellite-1		
		(B) Chandrayan-2		
		(C) Mars orbital mission		
		(D) Indian National Satellite-1A		
		Choose the <i>correct</i> answer from the options given below:		
		1. $(A), (B), (C), (D)$.		
		2. (D), (C), (B), (A).		
		3. $(B), (A), (D), (C).$		
		4. (D), (A), (C), (B).		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obi	ective Qu	estion		
69	569		4.0	1.00

Order the following electromagnetic radiation in terms of their decreasing energy level

- (A) Infrared rays
- (B) Gamma rays
- (C) Visible rays
- (D) Radio waves

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

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

Remote sensing of vegetation characteristics is obtained by using

4.0 1.00

- (A) UV rays
- (B) Visible light
- (C) Microwave
- (D) Infrared rays

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			
bject 1 5	ive Question		4.0	1.00
1 3	71	is the determination of one or few constituents from the sample.	4.0	1.00
	1.	Partial analysis		
	2.	Completer analysis		
	3.	Proximate		
	4.	ultimate		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
	ive Question		<u> </u>	<u> </u>
2 5		oH range at which the desirable colour change occurs for a particular indicator	4.0	1.00
	18	`		
	1.	pH		
	2.	pF		
	3.	Rh		
	4.	pT		
	A1:1			
	A2:2			
	A3:3			
	A4 : 4			
	ive Question			
3 5	Fquiv	valent weight of a salt depends on	4.0	1.00
	1.	No. of equivalent weight of an acid that combine into salt		
	2.	Basicity		
	3.	Acidity		
	4.	Weight of oxygen		
		coll	ege	edu
:///C:/	Users/ADMINI~	-1/AppData/Local/Temp/Rar\$EXa24348.39550/172_B1_Live_PHYSICALSCIENCE_1-120.html	jest Stud	lent Revie

			Active absorption is governed by theory.		
			1. Diffusion		
			2. Mass flow		
			3. Lecithin		
			4. Donnan equilibrium		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
(ctive Qu			
7	7	577	Mass of sample in picogram method is gram.	4.0	1.00
			1. 1-10		
			2. <10 ⁻¹²		
			3. 10^{-6} -0.001		
			4. 0.05-0.5g		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
		ctive Qu			
	8	578		4.0	1.00
			coll		١

Phosphorus is immobile in soil because

- (A) phosphate ions are held by anion exchange
- (B) Phosphate ions are held by ligand exchange
- (C) Phosphate ions are adsorbed as sparing soluble phosphates of Fe/Al.Ca
- (D) Phosphate ions are leached as completely soluble phosphates of Fe/Al.Ca

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

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

Assertion (A): Surface tension of water is very high (72.7dynes/cm) compared to other liquids.

Reason (R): High attraction of water molecules for each other is because of H bond.

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

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4.0 1.00

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	A3:3		
	A4:4		
•	Question	4.0	1.0
0 580	When the original value of N in urea is 46% and the estimated value is 45.5 %, then the relative error is $__\$ %.	4.0	1.0
	1. 0.5		
	2. 1.068		
	3. 0.005		
	4. 0.1068		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
	Question		
1 581	Point out the mobile nutrients in soil	4.0	1.0
	(A) Cu^{2+} , NO_3^- , Fe^{2+} , $H_3BO_3^-$		
	(B) NO_3^- , Cl^- , $H_2PO_4^-$, MoO_4^{2-}		
	(C) NO_3^- , Cl^- , $H_3BO_3^-$		
	(D) NO ₃ -, Cl-, H ₃ BO ₃ -,NH ₄ +		
	Choose the <i>correct</i> answer from the options given below:		
	1. (A), (B) and (D) only.		
	2. (C) only.		
	3. (A), (B), (C) and (D).		
	4. (A) and (D) only.		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
		14~	ш "Л

582	Arrange the minerals based on the descending order of weatherability	4.0	1.00
	(A) Biotite>Augite>Garnet >Quartz		
	(B) Zircon>Tourmaline>Olivine> Muscovite		
	(C) Albite>Ilmenite>Hornblende>Olivine		
	(D) Anorthite> apatite>Zircon>Titanite		
	Choose the <i>correct</i> answer from the options given below:		
	1. Only (A)		
	2. (A) and (B)		
	3. (A), (B) and (C)		
	4. (A), (B), (C) and (D)		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
ojective Q	uestion	4.0	1.00
583	Quantity of Na ₂ CO ₃ required to prepare 500 ml of 0.1N Na ₂ CO ₃ is	-•	1.00
	1. 2.65		
	2. 0.265		
	3. 26.5		
	4. 0.00265		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
bjective Q	uestion	10	1.00
1 584		4.0	1.00

Estimating the colored complex with chelating agent is ______.

- 1. Preciptometry
- 2. Complexometry
- 3. Argentometry
- 4. Thiocyanometry
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

85 585

Match List-I with List-II

4.0 1.00

List-I			List-II
(Theory proposed)			(Author)
(A)	Father of fertilizer Chemistry	(I)	Jackson
(B)	Nutrient index	(II)	Stanley A Barber
(C)	Root interception	(III)	Liebig
(D)	Weathering index	(IV)	Parker

Choose the $\it correct$ answer from the options given below :

- 1. (A) (II), (B) (III), (C) (IV), (D) (I)
- 2. (A) (I), (B) (II), (C) (III), (D) (IV)
- 3. (A) (I), (B) (II), (C) (IV), (D) (III)
- $4. \hspace{1cm} (A) (III), (B) (IV), (C) (II), (D) (I) \\$
- A1:1
- A2 : 2
- A3:3
- A4:4

Objective Question

86 586

4.0 1.00 collegedunia

Arrange the soil particles in the ascending order of its diameter (mm)

- (A) silt
- (B) clay
- (C) fine sand
- (D) coarse sand

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

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

Objective Question

37 587

Match List-I with List-II

4.0 1.00

List-I			List-II
(Tł	neory proposed)	(Aut	hor/formula)
(A)	Textural triangle	(I)	Sorenson
(B)	Ideal gas	(II)	Schofield
(C)	pH	(III)	Whitney
(D)	pF	(IV)	PV=nRT

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			
Obj	ective Qu	estion			
88	588	ACCULATION OF THE PE	4.0	1.00	1

Match List-II with List-II

List-I			List-II
	(Theory proposed)		(Author)
(A)	Contact exchange	(I)	Bray
(B)	Air capacity of soil	(II)	Jenny and Overstreet
(C)	Mobility of nutrients	(III)	Mitscherlich
(D)	Growth factor and yield	(IV)	Khonke

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

89 | 589 | 4.0 | 1.00 |

Arrange the minerals in the order of decreasing weathering index

- (A) Kaolinite
- (B) Montmorillonite
- (C) Vermiculite
- (D) Mica

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

90 590

Given below are two statements:

4.0 | 1.00

Statement (I): International pipette method is regarded as the standard method for particle size analysis due to its accuracy.

Statement (II): The hydrometer method is rapid but less accurate.

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

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India's largest Student Re

01:				
	ctive Qu 591	uestion	4.0	1.00
91	391	Arrange the soil in the decreasing order of soil wetness	4.0	1.00
		(A) Friable/firm		
		(B) Very plastic		
		(C) Hard		
		(D) Indunated		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B), (C), (D).		
		2. (B), (C), (D),(A) 3. (B), (A), (C), (D).		
		4. (C), (B), (D), (A).		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Qu	uestion		
92	592		4.0	1.00
		_		
				اا

Match List-I with List-II

	List-I	List-II				
	Soil type	Bulk density (Mg m ⁻³)				
(A)	Peat	(I) 2.0				
(B)	Compact	(II) 1.1 to 1.4				
(C)	Fine textured	(III) 1.4 to 1.75				
(D)	Coarse textured	(IV) 0.5				

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

93 593

Given below are two statements:

Statement (I): Olivine is least stable.

Statement (II): Has independent silica tetrahedron and held together by forming bonds with hydolysable Magnesim or oxidisable Iron.

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.

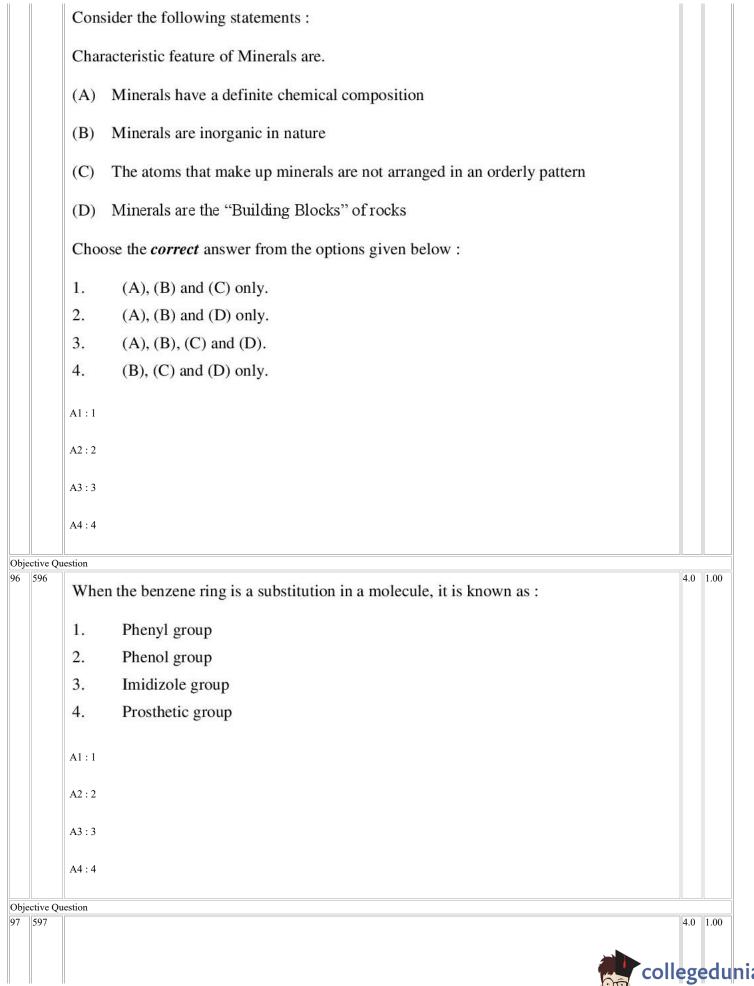
A1:1

A2:2

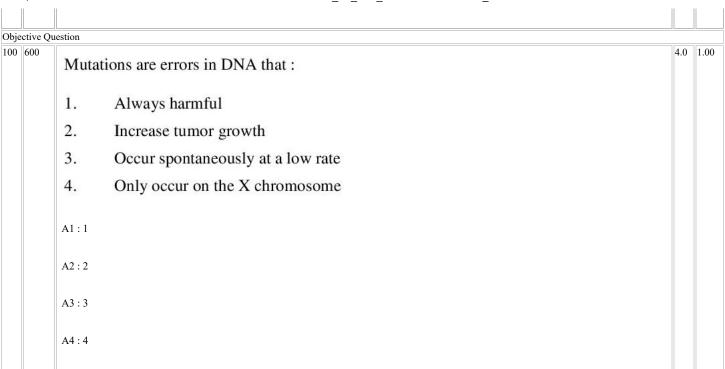


4.0 1.00

		A3:3				
		A4:4				
_	ctive Qu 594	estion			4.0	1.00
24	334		below are ason (R).	two statements, one is labelled as Assertion (A) and other one labelled	4.0	1.00
		Asser	tion (A):	Mobility is the overall process where by nutrients reach the root surface and sorption into plant.		
		Reaso	on (R):	Mobility involves the solution or exchange of nutrients and movement to root surface.		
		In light below		above statements, choose the correct answer from the options given		
		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 tru	e but (R) is false.		
		4.	(A) is fal	se but (R) is true.		
		A1:1				
		A2:2				
		A3:3				
		A4:4				
_	ctive Qu	estion				
95	595					1.00
				coll	eσ	dı



		What i	s the common formula for the alkanes?		
		1.	C_nH_{2n}		
		2.	200 S 200 S 200 S		
			C_nH_{2n-2}		
		4.	C_nHn		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obia	ctive Que				
	598		s the common name of Butan-1-ol?	4.0	1.00
		** 1140 1			
		1.	Methanol		
		2.	n-Butyl alcohol		
		3.	n-Butanol n-Butyl alcohol		
		4.	Isobutyl alcohol		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obie	ctive Que	estion			
_	599		ype of covalent bonds link the amino acids in a protein?	4.0	1.00
		1.	Peptide bonds		
		2.	Hydrogen bonds		
		3.	Glycosidic bonds		
		4.	Ester bonds		
		A1:1			
		A2:2			
		AL: L			
		A3:3			
		A4:4	colle	206	du



Objective Question

101 601

Match List-II with List-II

4.0 1.00

	List-I		List-II
Column A			Column B
(A)	n- hexadecanaic acid	(I)	Watson and Crick
(B)	Secondary amino group	(II)	Proline
(C)	Double helical DNA	(III)	Palmitic acid
(D)	Enantiomer	(IV)	Optical isomer

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) (II), (C) (I), (D) (IV)

A1:1

A2 : 2

A3:3

A4:4

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Objective Question

02 602 Arr		4.0	_
	ange the following carbohydrate molecules in the increasing molecular weights:	4.0	1.00
(A)	Starch		
(B)	Sucrose		
(C)	Glucose		
(D)	Amylopectin		
Che	pose the <i>correct</i> answer from the options given below:		
1.	(A), (B), (C). (D)		
2.	(B), (A), (C), (D)		
3.	(B), (A), (D), (C)		
4.	(A), (D), (C), (B)		
A1:1			
A2:2			
A3:3			
A4:4			
ojective Question			
jective Question	ange the following amino acids on the basis of increasing side chain size	4.0	1.0
ejective Question 3 603 Arr		4.0	1.0
jective Question B 603 Arr	ange the following amino acids on the basis of increasing side chain size Alanine	4.0	1.0
jective Question B 603 Arr (A)	ange the following amino acids on the basis of increasing side chain size Alanine Glycine	4.0	1.0
jective Question B 603 Arr (A) (B)	ange the following amino acids on the basis of increasing side chain size Alanine Glycine	4.0	1.0
jective Question B 603 Arr (A) (B) (C) (D)	ange the following amino acids on the basis of increasing side chain size Alanine Glycine Isoleucine	4.0	1.0
jective Question B 603 Arr (A) (B) (C) (D)	ange the following amino acids on the basis of increasing side chain size Alanine Glycine Isoleucine Leucine	4.0	1.0
jective Question B 603 Arr (A) (B) (C) (D)	ange the following amino acids on the basis of increasing side chain size Alanine Glycine Isoleucine Leucine oose the <i>correct</i> answer from the options given below:	4.0	1.0
(A) (B) (C) (D) Che 1.	Alanine Glycine Isoleucine Leucine cose the <i>correct</i> answer from the options given below: (A), (B), (C), (D).	4.0	1.0
(A) (B) (C) (D) (Check 1. 2.	ange the following amino acids on the basis of increasing side chain size Alanine Glycine Isoleucine Leucine oose the <i>correct</i> answer from the options given below: (A), (B), (C), (D). (B), (D), (A), (C).	4.0	1.0
ective Question 603	ange the following amino acids on the basis of increasing side chain size Alanine Glycine Isoleucine Leucine oose the <i>correct</i> answer from the options given below: (A), (B), (C), (D). (B), (D), (A), (C). (B), (A), (D), (C).	4.0	1.0

	A3:3			
	A4:4			
	re Question		4.0	1.00
104 604	Photo	chemical smog formation in urban areas is mainly due to the presence in the phere of.	4.0	1.00
	1.	Ozone, PAN, and Nitrogen dioxide.		
	2.	Fog and Smoke.		
	3.	Particulates and fog.		
	4.	Winter climate and high humidity		
	A1:1			
	A2:2			
	A3:3			
	A4:4			
Objectiv	re Question			
105 60:	Under	which law the industries likely to cause environmental pollution should be ned by	4.0	1.00
	1.	The Factories Act,1948		
	2.	The Water Act 1974.		
	3.	The Environment Protection Act 1986		
	4.	The Air Act 1981		
	A1:1			
	A2:2			
	A3:3			
	A4 : 4			
	re Question			
106 600	Ripari	ian Erosion occurs at	4.0	1.00
	1.	Clear cut forest land		
	2.	Harvested croplands		
	3.	Banks of streams		
	4.	Places having excessive grazin	lege	edur
::///C:/U	□ Isers/ADMINI~	1/AppData/Local/Temp/Rar\$EXa24348.39550/172 B1 Live PHYSICALSCIENCE 1-120.html	gest Stud	ent Review 57/6

		1.	Physical changes	
		2.	Chemical changes	
		3.	Biological changes	
		4.	Physical, chemical and biological changes.	
		A1:1		
		A2:2		
		A3:3		
		A4:4		
(Objective Qu	estion		

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109 609

4.0 1.00

		Which	of the following is an amino acid		
		1.	Cysteine		
		2.	Histidine		
		3.	Proline		
		4.	Glycine		
		. 1 1			
		A1:1			
		A2:2			
		A3:3			
		A4:4			
		A4.4			
Object 110	tive Qu			4.0	1.00
		Which	of the following statement is incorrect:		
		1.	Amylose is water soluble fraction of starch		
		2.	Amylopectin is water-insoluble fraction of starch		
		3.	α - D Glucose units are present in amylose and amylopectin.		
		4.	Amylose is water-insoluble fraction of starch		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Object 111	ctive Qu	estion		4.0	1.00
111		In plan	its, the photoassimilates are translocated as		1.00
		1.	Sucrose		
		2.	Sorbitol		
		3.	Stachyose		
		4.	Sucrose, Sorbitol and Stachyose		
		A1:1			
		A2:2			
		A3:3			

7/10/23, 12:14 PM 172_B1_Live_PHYSICALSCIENCE_1-120.html Objective Question 112 612 4.0 1.00 Match List-II with List-II

	List-I		List-II
	(Column A)		(Colums B)
(A)	DNA is found at the end of the linear eukaryotic chromosome	(I)	Centromere
(B)	Protein structure on eukaryotic chromosomes where spindle fiber attaches	(II)	Telomere
(C)	DNA site where kinetochores are found	(III)	Nucleolar organizer
(D)	DNA sequence that serves as the template for synthesis and amplification	(IV)	Kinetochore

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

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

A1:1

A2:2

A3:3

A4:4

Objective Question

113 613 4.0 1.00

- (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.
- (A) and (C) only.
- 4. (A) and (D) only

A1:1

A2:2

A3:3

A4:4

Objective Question

114 614

Match List-II with List-II

4.0 1.00

	List-I	List-II		
(1)	Mineral Element)	(Function)		
(A)	Molybdenum	(I) Water Oxidation		
(B)	Manganese	(II) Chlorophyll Structure		
(C)	Magnesium	(III) Nitrogen fixation		
(D)	Zinc	(IV) Auxin Synthesis		

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

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

115 615

Match List-II with List-II

4.0 1.00

List-I (Discover)			List-II
			(Scientist)
(A)	Nutrient essentiality criteria	(I)	Y.L. Nene
(B)	Stages of cell	(II)	Arnon and Stout
(C)	Cell	(III)	Robert Hooke
(D)	Khaira disease	(IV)	Walther Fleming

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

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

	estion	
116	616	

Which of the following group of compounds is produced by *Streptomyces hygroscopicus*?

4.0 1.00

- 1. Tetranactin
- 2. Avermectins
- 3. Strobilurins
- 4. Milbemycin
- A1:1
- A2:2
- A3:3

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II		П	II
	A4:4		
Obia stissa C			
Objective Q 117 617		4.0	1.00
	Which of the following is not insecticide synergist?		
	1. Dillapiole		
	2. Sesamol		
	3. Nimbinol		
	4. PBO		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
Objective Q	Duestion		
118 618	Given below are two statements:	4.0	1.00
	Statement (I): Black gram as a cover crop reduces surface runoff and soil loss during rainy seasons.		
	Statement (II): Black gram as a live mulch crop reduces surface runoff and soil loss during rainy seasons.		
	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		
Objective Q	Duestion		
119 619		4.0	1.00
- 11		11	11

The following is the list of pesticides

- (A) B.H.C.
- (B) D.D.T
- (C) NaCN
- (D) Heptachlor
- (E) Carbendazim

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

- 1. (A) to (E) Pesticide are banned for use in India
- 2. Only (E) is banned for use in India
- 3. (A) to (E) are not banned for use in India
- 4. (A) to (D) are banned for use in India except (E)

A1:1

A2:2

A3:3

A4:4

Objective Question

120 620

Given below are Four statements:

Statement (I): Bromadiolone is used as a rodenticide.

Statement (II): Atrazine is a herbicide.

Statement (III): Carbamate group of pesticides was related to the Bhopal gas

incident.

Statement (IV): Rotenone a, natural compound is used as an insecticide and

herbicide.

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

- 1. **Statements (I)** and **(II)** and **Statements (III)** and **(IV)** are true.
- 2. **Statements (I)** and **(II)** and **Statements (III)** and **(IV)** are false.
- 3. **Statement (I)** is true but **Statement (II)** is false.
- 4. **Statement (III)** is false but **Statement (IV)** is true.

A1:1



4.0 1.00

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A2:2				
A3:3				
A4:4				