

PREVIEW QUESTION BANK

Module Name : ENVIRONMENTAL SCIENCE-ENG
Exam Date : 09-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Which one of the following is not one of the features of parliamentary form of government? 1. Majority party rule 2. Collective Responsibility 3. Integrated and Independent Judiciary 4. Dissolution of the lower house A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which of the following term implies that 'India is a neither a dependency nor a dominion of any other nation'? 1. Socialist 2. Sovereign 3. Secular 4. Democratic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003	Which of the following form the maximum water composition on the earth's surface? 1. Oceans 2. Ice caps 3. Glaciers 4. Lakes A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		
Objective Question				
4	2004	Which one of the following does not fall under the category of 'biomes? 1. Forest 2. Sky 3. Desert 4. Grassland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	2005	IUCN publishes information about which of the following species as Red List of threatened species? 1. Endangered Species 2. Vulnerable Species 3. Extinct Species 4. Rare Species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	2006	Who was the first Indian to win an individual medal in Olympics? 1. Milkha Singh 2. Karnam Malleshwari 3. P. T. Usha 4. K. D. Jadhav A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
7	2007	Who among the following reformers founded "Arya Samaj"? 1. Raja Ram Mohan Roy 2. Swami Dayananda Saraswati 3. Atmaram Pandurang 4. Ishwarchandra Vidyasagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	2008	What does "Triratna" mean in Buddhism? 1. Tripitaka 2. Buddha, Dhamma (dharma), Sangha 3. Satya, Ahimsa, Karuna 4. Sheel, Samadhi, Sangha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	2009	Who started the Indian Reforms Association? 1. Narayan Guru 2. Swami Vivekananda 3. Krishna swami Aiyar 4. Keshav Chandra Sen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

10	2010	Consider the following statements (A). UN General Assembly has declared 2023 as the international year of millets (B). Odisha govt. ropes in FICCI to promote millets globally (C). Odisha Millets Mission is a flagship programme of the Odisha government to revive millets in farms and on plates 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), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

11	2011	Phomopsis blight occurs in which of the following crops? 1. Brinjal 2. Bajra 3. Sugarcane 4. Potato A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

12	2012	Endemic pests can be described as? 1. Pest occurs in a few specific area. 2. Pest occurs in same area, year after year. 3. Pest occurs frequently in current season in abundance. 4. Pest occurs in severe form. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
13	2013	Which country is the largest producer of raw silk? 1. Japan 2. India 3. China 4. South Korea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
14	2014	Transfer of Ownership is the example of which utility..... 1. Time utility 2. Place utility 3. Possession utility 4. Form utility A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
15	2015	What happens to the total number of chromosomes during mitotic cell division? 1. gets doubled 2. gets halved 3. remains the same 4. divides into four A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

16	2016	What is the minimum forest cover to be maintained as per the National Forest Policy, 1988?	4.0	1.00
		1. One-half 2. One-third 3. One-fourth 4. Two-third		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

17	2017	Who among the following is known as the "Father of Agronomy"?	4.0	1.00
		1. Stephen Hales 2. Gregor Johann Mendel 3. Peter Decresenzi 4. D N Walia		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

18	2018	Which of the following plant hormones helps in shoot elongation?	4.0	1.00
		1. Auxin 2. Gibberellic acid 3. Absciscic acid 4. Cytokinin		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

19	2019		4.0	1.00
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		Select from the following the chemical property of soil..... 1. Colour 2. pH 3. Texture 4. Structure A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
20	2020	The process of separating quality grains from chaff is called as..... 1. Winnowing 2. Threshing 3. Harvesting 4. Tilling A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
21	151001	The ionic product of water at 25°C is 1. 10^{-14} 2. 10^{-7} 3. 10^{-8} 4. 10^{-10} A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	151002		4.0	1.00

The value of void ratio ranges from

1. 0.3 – 2.0
2. 0.2 - 3.0
3. 1.0 - 3.0
4. 4.0 - 5.0

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	151003	The ideal soil moisture range for optimum plant growth is 1. Zero water suction 2. Water suction between 0 and 0.3 bar 3. Water suction between 0.3 and 5 bar 4. Water suction between 0.3 bar and 15 bar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

24	151004	The albedo of the crop surface ranges from 1. 23-30% 2. 33-55% 3. 1-15% 4. 15-40% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

25	151005		4.0	1.00
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The source of fast neutron in neutron moisture meter is a mixture of

1. Americium-beryllium
2. Boron trifluoride (BF₃)-Cesium
3. Radium-amerium
4. Radium-BF₃

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

26	151006	The process by which the moving colloids generate electric potential in colloidal dispersion is known as 1. Electrophoresis 2. Electro-osmosis 3. Streaming potential 4. Sedimentation potential A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

27	151007	If larger the swath of a sensor, temporal resolution 1. increases 2. decreases 3. remains constant 4. first increases, then decreases A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

28	151008		4.0	1.00
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		The difference is intensity between the highest and the lowest intensity levels in an image is 1. Noise 2. Saturation 3. Contrast 4. Brightness A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

29	151009	Bilinear interpolation is the type of interpolation where intensity of the new location is weighted average of 1. Four pixels 2. Immediate pixel 3. Eight pixels 4. Sixteen pixels A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

30	151010	An UTM zone is ----- wide. 1. 8 degree 2. 6 degree 3. 10 degree 4. 4 degree A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

31	151011		4.0	1.00
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A 1: 100000 scale map relates 1 cm on the map to _____ on the ground.

1. 100 m
2. 1 km
3. 10 km
4. 1 m

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	151012	What does FWHM stand for? 1. Full Width at Half Magnitude 2. Full Width at Half Maximum 3. Full Width at High Magnitude 4. Full Width at High Maximum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

33	151013	Which is a method of unsupervised classification 1. Maximum likelihood classifier 2. Parallelepiped classifier 3. Minimum distance to mean classifier 4. ISODATA classifier A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

34	151014		4.0	1.00
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		1 Rutherford is equal to 3.7×10^{10} Bq 10^6 Bq 37 GBq 2.58×10^{-4} C/Kg A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

35	151015	The 'Law of the Minimum' was given by - RK Schofield (1840) - Justus von Liebig (1840) - EW Hillgard (1840) - RW Russel (1840) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

36	151016	What are the diameter and depth of Class A pan-evaporimeter ? 1207 mm and 254 mm, respectively 1107 mm and 284 mm, respectively 1287 mm and 284 mm, respectively 1107 mm and 254 mm, respectively A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	151017		4.0	1.00
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		Latent heat of vaporization of water is 1. 689 cal/gm 2. 585 cal/gm 3. 515 cal/gm 4. 495 cal/gm A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

38	151018	The model which explains not only the relationship between weather parameters and yield but also explains the mechanism of influencing dependent variables is known as (A). Statistical model (B). Descriptive models (C). Mechanistic models Choose the correct answer from the options given below: 1. (A), (B) and (C). 2. (A) and (B) only. 3. (B) only 4. (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

39	151019	Full form of CERES model is 1. Crop Environment Resource Synergy 2. Crop Ensemble Resource Synthesis 3. Crop Environment Resource Synthesis 4. Cultivar Environment Resource Synergy A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

40	151020	What is the purpose of weather alerts and warnings? 1. To provide information to the public about current and upcoming weather conditions that could be dangerous or disruptive. 2. To promote tourism during favorable weather conditions. 3. To encourage people to participate in outdoor activities. 4. To educate the public about weather forecasting techniques. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

41	151021	What factors can affect the accuracy of weather forecasts? 1. The complexity of the atmosphere, the quality and quantity of data available, and the limitations of computer models and forecasting techniques. 2. The color of the sky, the number of birds in the area, and the humidity of the soil. 3. The time of day, the direction of the wind, and the phase of the moon. 4. The type of clouds in the sky, the shape of the mountains, and the distance from the ocean. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

42	151022		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Terminology)	(Expression)
(A). Potential evapotranspiration	(I). The sum of volume of water taken by vegetation for transpiration and evaporation from soil plus water used by the plant for metabolic processes The sum of volume of water taken by vegetation for transpiration and evaporation from soil plus water used by the plant for metabolic processes
(B). Reference crop evapotranspiration	(II). Rate of evapotranspiration from an extended surface of 8 – 15 cm tall green grass cover of uniform height actively growing, completely shading the ground and not short of water (mm day^{-1})
(C). Actual crop evapotranspiration	(III). The maximum water lost through evaporation from wet soil and transpiration from a short cut grass, covering ground completely, under unlimited water supply
(D). Consumptive use	(IV). Rate of evapotranspiration equal to or smaller than predicted ET crop as affected by a level of available soil water, salinity, field size or other causes (mm day^{-1})

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43	151023		4.0	1.00
The Arabian Sea Branch of Southwest Monsoon first hits				
1. Eastern ghat 2. Vindhaychal 3. Deccan Plateau 4. Western ghat				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

44	151024		4.0	1.00

Which of the following is a synoptic scale phenomenon?

1. Cyclone
2. Thunderstorm
3. Dust whirl
4. Cols

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

45 151025

4.0 1.00

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

List-I	List-II
(A). Evaporation	(I). 80 cal/g latent heat released
(B). Melting	(II). 540cal/g latent heat is used
(C). Freezing	(III). 540cal/g latent heat is released
(D). Condensation	(IV). 80cal/g latent heat is used

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46 151026

4.0 1.00

Given below are two statements:

Statement (I): Doldrums are equatorial belts of low calm and variable winds due to negligible pressure gradient

Statement (II): ITCZ are also called doldrums located between 5°N and 5°S

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47	151027	The general circulation of the earth is 1. Frontal 2. Unicellular 3. Bi-cellular 4. Tri-cellular A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

48	151028	What is the meaning of 'Meteoro' from which the word "Meteorology" derived? 1. Meteoro is a greek word and means above the earth surface 2. Meteoro is greek word and does not mean above the earth surface 3. Meteoro is latin word and means above the earth surface 4. Meteoro is latin word and does not mean above the earth surface A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question			
49	151029	The longest possible duration of insolation in 40 to 50 degree N latitude is 1. 10 to 11 hours 2. 12 to 13 hours 3. 15 to 16 hours 4. 17 to 18 hours A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0 1.00
Objective Question			
50	151030	Given below are two statements: Statement (I): Entropy is the measure of unavailable energy resulting from transformation Statement (II): Entropy indicates the general index of disorder associated with energy degradation viz. low entropy means low amount of disorders or unavailable energy in the system. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0 1.00
Objective Question			
51	151031	The Royal Bengal Tiger (<i>Panthera tigris</i>) is one of the charismatic carnivores in the Indian subcontinent is a / an 1. Threatened species as per WWF on Red List 2. Vulnerable species as per IUCN on Red List 3. Endangered species as per NTCA on Red List 4. Endangered species as per IUCN on Red List A1 : 1 A2 : 2 A3 : 3	4.0 1.00

		A4 : 4		
Objective Question				
52	151032	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Forest Survey of India (FSI) was founded in June 1981 with headquarterd at Dehradun in Uttarakhand. Reason (R) : The First- India's State of Forest Report (ISFR) was released in the 1987 by Forest Survey of India. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	151033	The headquarter of National Biodiversity Authority (NBA) is located at: - Chennai - Bangalore - Hyderabad - Dehradun A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
54	151034	The frequency of publication of the journal "Range Management & Agroforestry" by the Range Management Society of India is: - Two issues in a year - Three issues in a year - Four issues in a year - Six issues in a year A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		

Objective Question

55	151035	Making a historic moment for India's cheetah reintroduction project, the Namibian cheetahs were released in _____ National Park of India. 1. Kanha 2. Pench 3. Kuno 4. Panna A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

56	151036	The order of top 3 species of forest having highest percentage in total growing stock in the country's forests is: 1. <i>Shorea robusta</i>, <i>Tectona grandis</i>, <i>Pinus roxburghii</i> 2. <i>Tectona grandis</i>, <i>Shorea robusta</i>, <i>Anogeissus latifolia</i> 3. <i>Anogeissus latifolia</i>, <i>Linea coromandelica</i>, <i>Shorea robusta</i> 4. <i>Linea coromandelica</i>, <i>Pinus roxburghii</i>, <i>Shorea robusta</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

57	151037	Given below are two statements: Statement (I): Total bamboo bearing area of the country has been estimated to be 15.0 million ha and Madhya Pradesh has maximum bamboo bearing area followed by Arunachal Pradesh, Maharashtra and Odisha. Statement (II): As per the ISFR- 2021, the total bamboo bearing area in the country has decreased in comparison to ISFR-2019. In light of the above statements,choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

58	151038	The merger of ICRAF and CIFOR became effective on 1. 22nd May, 2021 2. 1st January, 2019 3. 21st March, 2022 4. 1st January, 2023 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

59	151039	Given below are two statements: Statement (I): ICAR initiated a network project for organized research in 1983 i.e., All India Coordinated Research Project on Agroforestry. Statement (II): The National Research Centre for Agroforestry (NRCAF), as a unit of ICAR was established on 8 May 1988 and renamed as Central Agroforestry Research Institute (CAFRI) in December, 2014. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

60	151040		4.0	1.00
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Which among the following is the recently added wetland to the Ramsar sites in India?

1. Hygam Wetland Conservation Reserve
2. Chandra taal lake
3. Harike wetland
4. Tsomoriri lake

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

61	151041	Consider the following statements Statement (I): GOBAR-DHAN Yojana aims to focus on managing and converting cattle dung and solid waste in farms to compost, biogas and bio-CNG. Statement (II): It was announced in 2017-18 budget speech. Which of the above statement(s) is/are correct? 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	151042	Under the Sustainable Alternative Towards Affordable Transportation (SATAT) scheme, which one is being promoted as an alternative transport fuel. 1. CNG 2. LPG 3. PNG 4. CBG A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

63151043

4.01.00

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

List-I	List-II
(SDG)	(Focus area)
(A).SDG 10	(I). Climate change
(B).SDG 13	(II).Life on land
(C). SDG 14	(III). Reduced inequalities
(D). SDG 15	(IV).Life under water

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

64	151044	Which of the following statements is correct? 1. The tides are a conventional source of energy 2. The sun is a conventional source of energy 3. The wind is a conventional source of energy 4. Dried dung is a conventional source of energy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

65	151045		4.0	1.00
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Which of the following statements gives the correct meaning of absorptive capacity?

1. Absorptive capacity is defined as the ability of our environment to absorb degradation
2. Absorptive capacity is defined as the method of resource generation that is within the assimilating capacity of our environment
3. Absorptive capacity is defined as the average number of organisms that are living within a given environment
4. Absorptive capacity is defined as the minimum population that is currently surviving in the world

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66	151046	The places where plant preservation takes place by providing artificial treatment to them to prevent these plants from getting extinct is known as: 1. Sanctuary 2. National park 3. Cryopreservation 4. Botanical garden A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

67	151047	Out of the following, which is NOT an in situ conservation site? 1. Biosphere reserve 2. Zoological park 3. Sanctuaries 4. National park A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

68	151048		4.0	1.00
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In our country, there have been several attempts to increase the height of several dams that already exist, such as Tehri and Almati, and dams across Narmada. Out of the following, choose the correct statements that are a consequence or a disadvantage of raising the height of the dams

(A). The displacement of the people and domestic animals residing in that area.

(B). Complete destruction of the terrestrial flora and fauna.

(C). It will generate a lot of employment for people.

(D). Permanent loss of valuable agricultural land.

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

69	151049	Bundhis, Kattas, Khadins, Ahars are ancient structures built for 1. Soil conservation 2. Storage of grain 3. Water Harvesting 4. Storage of wood A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

70	151050	A student studies that the construction of a water harvesting system in a region can help conserve water. How can the construction of this system help a region? 1. It will reduce the occurrence of droughts 2. It will reduce the percolation of rainwater 3. It will replenish surface water like rivers 4. It will increase the speed of flow of surface runoff A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

71	1003101	Which sentences belong to the habitat (A). Place where an organism or a species population lives (B). Subdivision of habitat called a microhabitat (C). Elton (1927) coined the word <i>niche</i> to denote the microhabitats where the organisms live (D). Joseph Grinnel (1917) regarded the niche as a fundamental unit of an organism in the community Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only. 4. (A), (B), (C) and (D). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

72	1003102	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Decomposers are also heterotrophic organisms. Reason (R) : Microorganisms are primary decomposers and invertebrates are secondary decomposers. 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	4.0	1.00
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Objective Question

73	1003103		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Oceanic zone)	(Define)
(A). Continental shelf	(I). The continental slope levels off with the ocean floor
(B). Continental slope	(II). A gentle slope extends from the coast line to 160 km
(C). Benthic zone	(III). The angle of descent then changes abruptly and become a steep slope
(D). Abyssal plain	(IV). The sea floor beyond the littoral zone and along continental sloe and abyssal plain

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

74	1003104	Which of the following is not a method of measurement of primary productivity?	4.0	1.00
1. Light and dark bottle method 2. Aerodynamics method 3. Radioisotope method 4. Dissolved oxygen measurement				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

75	1003105	A genetically different population (subspecies) within a species which is adapted to specific environmental conditions known as	4.0	1.00
1. Ecotype 2. Ecospecies 3. Ecocline 4. Ecad				
A1 : 1				

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

76	1003106	Which are the characteristics of r-selected species? 1. Short life span in favourable environmental conditions 2. Early reproduction and high fecundity in unfavourable environmental conditions 3. Short body size in unfavourable environmental conditions 4. High fecundity in favourable environmental conditions A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1003107	Which is the correct order of fossil fuel reservoirs' life span (years)? 1. Oil > Coal > Natural gas 2. Natural gas > Oil > Coal 3. Coal > Oil > Natural gas 4. Coal > Natural gas > Oil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

78	1003108	Which of the following theory explains that succession may not always be progressive? 1. Monoclimax theory 2. Polyclimax theory 3. Information theory 4. Climatic climax theory A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
79	1003109	The human survivorship curves in general are 1. Highly convex 2. Stair step type 3. Highly concave 4. Straight line type A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	1003110	Which state has the maximum bamboo-bearing area? 1. Madhya Pradesh 2. Maharashtra 3. Arunachal Pradesh 4. Odisha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	1003111	What is the increasing order of levels species conservation aspects of different species? 1. Critically endangered → Endangered → Vulnerable 2. Vulnerable → Endangered → Critically endangered 3. Critically endangered → Vulnerable → Endangered 4. Endangered → Critically endangered → Endangered A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question			
82	1003112	In which year project crocodile breeding was started in India? 1. 1972 2. 1974 3. 1987 4. 1992 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0 1.00
Objective Question			
83	1003113	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Invasive species are native that occur outside their naturally adapted ranges and dispersal potential. Reason (R) : Low rate of aerial or subterranean biomass production. 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	4.0 1.00
Objective Question			
84	1003114	Who gave the concept of hotspots? 1. Wallace 2. Reice 3. Riebesell 4. Myers A1 : 1 A2 : 2 A3 : 3	4.0 1.00

		A4 : 4		
Objective Question				
85	1003115	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : 'Dev rais' in Maharashtra is an example of sacred groves. Reason (R) : Sacred groves are the best example of <i>ex-situ</i> conservation. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
86	1003116	In which year India became a party of the Convention on Biodiversity (CBD)? 1992 1993 1994 2002 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
87	1003117	When VOCs and NO_x react in the presence of sunlight form? - Hydrocarbons - Fog - Smog - Primary air pollutants A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

88 1003118

4.0

1.00

According to NAAQS (2009), what are the annual air quality standards of Pb, Ni and As for rural areas?

1. $0.5 \mu\text{g}/\text{m}^3$, $20 \text{ ng}/\text{m}^3$, $6 \text{ ng}/\text{m}^3$
2. $20 \mu\text{g}/\text{m}^3$, $1 \text{ ng}/\text{m}^3$, $6 \text{ ng}/\text{m}^3$
3. $1 \mu\text{g}/\text{m}^3$, $20 \text{ ng}/\text{m}^3$, $6 \text{ ng}/\text{m}^3$
4. $1 \mu\text{g}/\text{m}^3$, $6 \text{ ng}/\text{m}^3$, $20 \text{ ng}/\text{m}^3$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

89 1003119

4.0

1.00

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

List-I	List-II
(Air pollutant)	(Method)
(A). CO	(I). West and Gaeke's method
(B). SO ₂	(II). Indicator tube method
(C). H ₂ S	(III). H ₂ SO ₄
(D). NH ₃	(IV). Cadmium sulphate and sodium hydroxide

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90 1003120

4.0

1.00

		In which year, National Disaster Management Authority (NDMA) was constituted? 1. 2003 2. 2005 3. 2007 4. 2009 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

91	1003121	What is lean fuel mixture? 1. Air: fuel ratio < stoichiometric ratio 2. Air: fuel ratio > stoichiometric ratio 3. Air: fuel ratio = stoichiometric ratio 4. Air: fuel ratio ≤ stoichiometric ratio A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

92	1003122	What is the fluidized bed combustion (FBC) technology? 1. Wastewater treatment 2. Incineration technology 3. Decomposition of toxic metals 4. Clean coal combustion technology A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1003123		4.0	1.00
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What will be the atmospheric condition, if ambient lapse rate shows cooling at a faster rate than the dry adiabatic lapse rate?

1. Neutrally stable
2. Absolutely unstable
3. Absolutely stable
4. Unstable

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

94	1003124	What is the unit of horizontal dispersion coefficient (σ_y) in gaussian plume dispersion equation?	4.0	1.00
1. $\mu\text{g/s}$ 2. $\mu\text{g/m}^3$ 3. m/s 4. m				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

95	1003125	Given below are two statements: Statement (I): An Orsat gas analyser is a piece of laboratory equipment used to analyse gas samples. Statement (II): Orsat apparatus used to determine the concentration of SO_2 and N_2O in air. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.	4.0	1.00
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

96	1003126	Which one represents the total Kjeldahl nitrogen (TKN)? 1. Only organic nitrogen 2. Ammonium nitrogen 3. Organic and ammonium nitrogen 4. Total inorganic nitrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

971003127

4.01.00

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

List-I	List-II
(Class of water)	(Designated best use)
(A). Class A	(I). Drinking water source after conventional treatment and disinfection
(B). Class B	(II). Outdoor bathing (organised)
(C). Class C	(III). Drinking water source without conventional treatment but after disinfection
(D). Class D	(IV). Propagation of wild life and fisheries

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98	1003128	Which of the following is the correct sentence about lake eutrophication if the N:P > 10:1? 1. P is limited 2. N is limited 3. Both N and P are limited 4. Both N and P are not limited	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99 1003129

4.0

1.00

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

List-I	List-II
(Heavy metal)	(Associated disease)
(A). Pb	(I). Minamata disease
(B). Hg	(II). Anaemia
(C). Cd	(III). Black foot disease
(D). As	(IV). <i>Itai-itai</i> disease

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

100 1003130

4.0

1.00

What is retardation factor?

1. Ratio of average surface water velocity to velocity of sorbed material
2. Ratio of average groundwater velocity to velocity of sorbed material
3. Ratio of average river water velocity to velocity of sorbed material
4. Ratio of average pond water velocity to velocity of sorbed material

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101	1003131	The Indian Standard (IS) for drinking water as per BIS specifications is given as? 1. IS 14000: 2015 2. IS 14500: 2012 3. IS 10000: 2015 4. IS 10500: 2012 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

102	1003132	Which of the following sentences are correct about wastewater treatment? (A). Coagulation is a chemical treatment process which is opposed to the flocculation process. (B). Rapid depth filtration is used to remove small particles from water. (C). Secondary disinfection is used to prevent pathogens regrowth in the water. (D). Residual disinfection is used to kill pathogens in the water. Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B), (C) and (D) only. 3. (A), (B) and (C) only. 4. (A), (B), (C) and (D). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	1003133	Which method is a partial combustion of organic or fossil based carbonaceous material, plastics, etc. into carbon monoxide, hydrogen, carbon dioxide, and methane at high temperature (650°C and above), with a controlled amount of air, oxygen, or steam? 1. Gasification 2. Pyrolysis 3. Partial pyrolysis 4. Plasma Pyrolysis Vitrification A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

104	1003134	In which year, the Plastic Waste (Management and Handling) Rules was enacted? 1. 1998 2. 2000 3. 2011 4. 2016 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

1051003135

4.01.00

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

List-I	List-II
(Biomedical waste)	(Container colour)
(A). COVID waste	(I). Yellow
(B). Syringes without needles	(II). Red
(C). Contaminated glass	(III). White
(D). Scalpels	(IV). Blue

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

106	1003136		4.0	1.00
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Given below are two statements:

Statement (I): In one state (Sikkim) the number of landfill sites exceeds the number of dumpsites.

Statement (II): In India, only 341 landfills in operations whereas there are 3184 solid waste dumpsites in the country during 2020-21.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

107	1003137	Which one is the false statement? 1. Stability of the anaerobic digestion process is reflected by the concentration of intermediate products like the volatile fatty acids (VFA) 2. Volatile fatty acids are intermediate compounds (acetate, propionate, butyrate, lactate), produced during acetogenesis process during biogas production 3. Too high ammonia concentration inside the biogas digester is considered to be responsible for process inhibition 4. The optimal ratio of the macronutrients, C:N:P:S is considered 600:15:5:1 for biogas production A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

108	1003138	The Love Canal incident in Niagara Falls, USA is related to 1. Plastic waste 2. Hazardous chemical waste 3. E-waste 4. Radioactive waste A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

109	1003139	The incineration process reduced the volume by.....and weight by of municipal solid waste? 1. 90%, 75% 2. 80%, 81% 3. 100%, 90% 4. 90%, 95% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

110	1003140	What is the percentage of renewable energy in total installed power generation capacity in India in 2022? 1. ~12% 2. ~25% 3. ~35% 4. ~50% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

111	1003141	Choose the correct sentence about biogas production (A). It is a clean, non-polluting and cheap energy source (B). Ministry of New and Renewable Energy promoting the biogas programme in India (C). KVIC model of the biogas plant is a fixed drum types plant (D). Janta model of biogas plant is floating drum types plant Choose the correct answer from the options given below: 1. (A), (B) and (C) only. 2. (A) and (B) only. 3. (A), (B) and (D) only. 4. (A), (B), (C) and (D) only. A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
112	1003142	What is the value of the solar constant? 1. 1317 W/m² 2. 1377 W/m² 3. 1397 W/m² 4. 1355 W/m² A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
113	1003143	Which of the following are the potential geothermal sites in India for energy production? (A). Rajgir in Bihar (B). Manikaran in Himachal Pradesh (C). Tapoban in Uttarakhand (D). Sohana region in J & K Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (B), (C) and (D) only. 4. (A), (B), (C) and (D). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	1003144		4.0	1.00

The aquifers which are overlaid by permeable earth materials and they are recharged by water seeping down from above in the form of rainfall and snow melt?

1. Unconfined aquifers
2. Confined aquifers
3. Layered aquifers
4. Sandwiched aquifers

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

115	1003145	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The hydropower potential of India is estimated to be about 4×10^{11} KWh. Reason (R) : Till now India has utilized only a little more than 11% of this potential. 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	4.0	1.00
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Objective Question

116	1003146	What is the minimum wind speed required for the satisfactory working of a wind generator? 1. 5 km/hr 2. 15 km/hr 3. 45 km/hr 4. 60 km/hr A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

117	1003147	The statistical results are 1. Absolutely correct 2. Not true 3. True on average 4. Universally true A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

118	1003148	For grouped data, the formula for the median is based on the? 1. Interpolation method 2. Extrapolation method 3. Trial and error method 4. Iterative method A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

119	1003149	The mean deviation is minimum when deviations are taken from? 1. Mean 2. Median 3. Mode 4. Zero A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

120	1003150		4.0	1.00
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The degree of freedom is related to

1. Number of observations in a set
2. Hypothesis under test
3. Number of independent observations in set
4. 1 and 2 only

A1 : 1

A2 : 2

A3 : 3

A4 : 4