

PREVIEW QUESTION BANK

Module Name : Agricultural Physics-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? 1. One-half 2. One-third 3. One-fourth 4. Two-third A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

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

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

22	151002		4.0	1.00
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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

1. 3.7×10^{10} Bq
2. 10^6 Bq
3. 37 GBq
4. 2.58×10^{-4} C/Kg

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35	151015	The 'Law of the Minimum' was given by 1. RK Schofield (1840) 2. Justus von Liebig (1840) 3. EW Hillgard (1840) 4. 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 ? 1. 1207 mm and 254 mm, respectively 2. 1107 mm and 284 mm, respectively 3. 1287 mm and 284 mm, respectively 4. 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

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	The Arabian Sea Branch of Southwest Monsoon first hits	4.0	1.00
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
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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
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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
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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
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		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
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
Objective Question				
60	151040		4.0	1.00

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 1003151

4.0

1.00

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

List-I	List-II
Phenomenon	Principle
(A). Rocket	(I). Torque
(B). Conservative forces	(II). Work done is followed by path
(C). Rate of change of angular momentum	(III). Work done follows path
(D). Non conservative forces	(IV). Principle of jet propulsion

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72 1003152

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 emission of beta particles is due to transformation of a neutron into a proton

Reason (R) : When a neutron changes into a proton an electron (beta particle) is ejected

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

73	1003153	The visibility of fringes in Michelson interferometer for strictly monochromatic light is 0.1 2.0 2.3 1.0 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

74	1003154	The average binding energy (B/A) per nucleon for moderate nuclei is 9.5 MeV 8.5 MeV 10.9 MeV 5.8 MeV A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1003155	Which are correct about light (A). Interference of light is an example of conservation of energy (B). The resolving power of a microscope depends on numerical aperture (C). Coherence in light has different wavelength (D). Light waves are transverse in nature Choose the correct answer from the options given below: (A), (B) and (D) only. (A) and (B) only. (A), (C) and (D) only. (B), (C) and (D) only. A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
76	1003156	If the rate of water supply exceeds the maximum rate of infiltration 1. water will start accumulating on soil surface 2. infiltration rate will increase proportionally to water supply rate 3. infiltration rate will still be lower than infiltrability 4. infiltration rate will be equal to the water supply rate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
77	1003157	Electrode poisoning is a process during ODR measurement, which refers to 1. corrosion of platinum electrode in soil 2. dissolution of platinum electrode in soil 3. selective adsorption of anions on platinum electrodes 4. deposition of chemicals on platinum electrode A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	1003158	According to Green and Ampt model, if steady-state infiltrability is 7 mm/hr and value of constant is 900 mm²/hr, the infiltration rate when 300 mm of water has entered into soil will be 1. 2.5 mm/hr 2. 5.0 mm/hr 3. 7.5 mm/hr 4. 10.0 mm/hr A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
79	1003159	The critical soil penetration resistance which reduces root growth by half for most of the crop plants is 1. 1.5 MPa 2. 1.8 MPa 3. 2.5 MPa 4. 2.0 MPa A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	1003160	Static properties of soil show which type of distribution curve? (A). Bell-shaped distribution curve (B). Normal distribution curve (C). Gaussian distribution curve (D). Regression curve Choose the correct answer from the options given below: 1. (A), (B) and (C) only. 2. (A) and (D) only. 3. (B) and (D) only. 4. (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	1003161		4.0	1.00

Water potential is an expression of

(A). Free energy of water

(B). Soil water content

(C). Energy by which soil holds water

(D). Kinetic energy of soil water

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82	1003162	Gravitational potential of soil water at the same elevation as the reference level but 300 cm on the right side of it is equal to 1. -300 cm 2. 300 cm 3. zero 4. 600 cm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

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

List-I	List-II
Instruments	Measurements
(A). Tensiometer	(I). Pressure potential of soil water
(B). Neutron moisture meter	(II). Matric potential of soil water
(C). Piezometer	(III). Soil water content
(D). Porometer	(IV). Stomatal conductance

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84	1003164	When the electric field oscillates with the direction of the electric vector in a constant direction, the wave is called (A). Linearly polarized wave (B). Plane polarized wave (C). Vertically polarized wave (D). Oblique wave Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (A) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1003165		4.0	1.00
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The variation of refractive index with wavelength is called

1. Internal reflection
2. Dispersion
3. Scattering
4. Radiation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86	1003166	When the refractive angle is equal to 90°, the refractive ray emerges tangent to the boundary of separation 1. True 2. False 3. Depends on reflection 4. Varies A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

871003167

4.01.00

Match List-I with List-II

List-I	List-II
Phenomena	Characteristics
(A). Doppler effect	(I). Bending of wave around an object
(B). Snell's law	(II). Apparent changes in frequency
(C). Penetration depth	(III). Refraction angle
(D). Diffraction	(IV). Power is reduced by $1/e$

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

88	1003168	The electromagnetic waves are coherent if (A). phase difference between them is constant in time and space (B). two waves must have same frequency (C). phase difference may vary with time (D). two waves may have different frequency Choose the correct answer from the options given below: 1. (A), (B) and (C) only. 2. (B) only. 3. (C) and (D) only. 4. (A) and (B) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1003169	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Radar and laser show speckled (grainy) appearance on the image due to interference of coherent radiation. Reason (R): Radar and laser sources have long coherent lengths In light of the above statements, choose the correct answer from the options given below. 1. A and R are true and R is NOT the correct explanation of A 2. A and R are true and R is 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

90	1003170		4.0	1.00
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Unit of radiance is

1. Watt sr⁻¹
2. Watt sr⁻¹m⁻²
3. Watt m⁻²
4. J m⁻³

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91	1003171	How much times the force of gravity, a centrifuge generates for sedimentation of suspended particles	4.0	1.00
1. 20000 times 2. 10000 times 3. 1000000 times 4. 50000 times				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

921003172

4.01.00

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

List-I	List-II
Wavenumber	Region
(A). 4000-1500 cm ⁻¹ IR spectrum	(I). Fingerprint region
(B). 1200-700 cm ⁻¹ IR spectrum	(II). Functional group region
(C). NMR spectroscopy spectra	(III). Energy different between excitation and emission
(D). Stokes shift	(IV). Nuclear spin

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93	1003173	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In solution centrifugation, a dense particle moves faster than a less dense one Reason (R) : The opposing buoyant force is smaller for a dense particle 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
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Objective Question

94	1003174	In centrifugation (A). The sedimentation velocity of a particle is proportional to its mass (B). A dense particle moves more rapidly than a less dense one (C). The sedimentation velocity depends on density of solution (D). The shape of the particle is not important Choose the correct answer from the options given below: (A), (B) and (D) only. (B), (C) and (D) only. (A), (C) and (D) only. (A), (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

95	1003175	In nuclear magnetic resonance phenomenon 1. Energy is provided by electromagnetic radiation of radio frequency to flip the nucleus from lower to higher energy state. 2. Energy is provided by radio waves to flip the nucleus from higher to lower energy state 3. Energy provided by electromagnet to flip the nucleus from higher to lower energy state 4. Energy provided by infrared to the nucleus to flip form lower to higher energy state A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1003176	Raman spectroscopy is based on 1. Absorption of light photons 2. Emission of light photons 3. Inelastic scattering of radiation by sample 4. Reflection of photon A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

97	1003177	Non- systematic geometric distortion in raw digital image is corrected through (A). Deskewing process (B). Ground control points (C). By correcting scanner mirror velocity Choose the correct answer from the options given below: 1. (A) only. 2. (B) only. 3. (A) and (D) only. 4. (C) only. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
98	1003178	What is/are the most important corrections should be applied on a raw image while you wish to study multi-temporal phenomena (A). Geometric Corrections (B). Radiometric corrections (C). Image enhancement (D). Contrast manipulation Choose the correct answer from the options given below: 1. (A) only. 2. (B) only. 3. (A) and (B) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	1003179	A pixel in an image is acquired when solar elevation angle was 45 Degree. The digital number of the pixel is 60. What will be normalized digital number of the pixel assuming that Sun was at zenith on the day of sensing? 1. 85 2. 45 3. 90 4. 100 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
100	1003180		4.0	1.00

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

List-I	List-II
NDVI values	Features
(A). 0.1 to 0.2	(I). Healthy vegetation
(B). 0.4 to 0.5	(II). Bare soil
(C). 0.6 to 0.8	(III). Poor vegetation
(D). -0.4 to -0.2	(IV). Waterbody

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101 1003181

4.0 1.00

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

Assertion (A) : Leaves typically reflect 40-50% and absorb less than 5% of the incident energy in the 0.7 to 1.3 micro meter region.

Reason (R) : Multiple reflection in the internal mesophyll structure is responsible for higher reflectance in this wavelength region.

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

102 1003182

4.0 1.00

What will be the size of an image in kilobytes (KB) if an image has 100 rows and 100 columns? Provided that the radiometric resolution of the sensor is 8 bits.

1. 10 KB
2. 12 KB
3. 15 KB
4. 8 KB

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103	1003183	Radiance measured by a sensor is influenced by (A). Change in scene illumination (B). Atmospheric conditions (C). Viewing geometry (D). Instrument response characteristics Choose the correct answer from the options given below: 1. (A) only. 2. (A) and (B) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	1003184	The most popular query language used in database management system is 1. SQL 2. C++ 3. Fortran 4. C+ A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

105	1003185	In relational database, relations between the tables can be A. One to one B. One to many C. Many to many D. One to ten only Choose the correct answer from the options given below: 1. A and D only 2. A and B only 3. A, B and C only 4. B and C only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1003186	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): A raster is a tessellation of a surface Reason (R): A tessellation is defined as the process to cover a surface through the repeated use of a single shape In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. A and R are true and R is NOT the correct explanation of A 2. A and R are true and R is 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

107	1003187		4.0	1.00
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Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A): In GPS, multi-pathing of the signal increases the travel time of the signal

Reason (R): When the radio signal of GPS satellites reaches Earth, it hits directly to the receiver

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

1. A and R are true and R is the correction explanation of A
2. A and R are not true
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

108	1003188	Integrated Mission for Sustainable Development (IMSD) was launched by	4.0	1.00
		1. ISRO-DOS 2. DST 3. MOES 4. NABARD		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

109	1003189	Which of the following is correct for WGS 84 datum system?	4.0	1.00
		A. Standard for GPS B. Earth gravitational model (Geoid) C. Last revision in 2004 D. Last revision in 2013 Choose the correct answer from the options given below: 1. A and C only 2. A and B only 3. A, B and C only 4. B and D only		
		A1 : 1		

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1003190

4.0 1.00

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

List-I	List-II
Scaling	Properties
(A). Nominal Scaling	(I). Definitions of categories
(B). Ordinal Scaling	(II). Definitions of categories plus ordering
(C). Interval Scaling	(III). Unit of measure plus zero point
(D). Ratio Scaling	(IV). Unit of measure

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111 1003191

4.0 1.00

What is true about deflection of winds by the Coriolis effect at 30° N latitude

1. The relative Coriolis effect is 50% and winds are deflected to right
2. The relative Coriolis effect is 86.6% and winds are deflected to right
3. The relative Coriolis effect is 50% and winds are deflected to left
4. The relative Coriolis effect is 86.6% and winds are deflected to left

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112 1003192

4.0 1.00

What is true about thunderstorms?

- (A). Mainly occurs in the tropics
- (B). Energy for development comes from the release of the latent heat of condensation in rising humid air
- (C). The height of thunderstorms is maximum in winter
- (D). Moisture and rising air are the essential for any thunderstorm

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

113	1003193	If the crop height is 105 cm, what will be the value of Zero Plane Displacement (d) and Roughness Length (Zo) according to Monteith equation? 1. 66 cm, 13 cm 2. 76 cm, 26 cm 3. 86 cm, 36 cm 4. 86 cm, 26 cm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1003194	Under atmospheric neutral stability conditions, heat transfer coefficient (K_H) and Mass transfer coefficient (K_W) will be 1. $K_H = K_W$ 2. $K_H = 2K_W$ 3. $K_W = 2K_H$ 4. $K_W = 0.3K_H$ A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

115	1003195	What represents the slope of the regression between cumulative water use (mm) and biomass (kg/ha), given the intercept is zero? (A). Water use efficiency (B). Water productivity (C). Water production factor Choose the correct answer from the options given below: 1. (A) only. 2. (B) only. 3. (A) and (B) only. 4. (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

116	1003196	What is/are the reducing factor(s) at production level 3 in crop simulation model? (A). Weather (B). Water (C). Nutrient (D). Pest 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), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

117	1003197		4.0	1.00
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What is not the advantages of Forrester diagrams?

- (A). Separate the mathematical equations from the conceptual issues of the nature of system object
- (B). As the number of variables and relations between objects become large, the size of diagram increases.
- (C). Forrester diagram helps in building quantitative model

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

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

A1 : 1

A2 : 2

A3 : 3

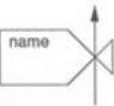
A4 : 4

Objective Question

118 1003198

4.0 1.00

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

List-I	List-II
(Symbols)	(Type)
(A). 	(I). State variable
(B). 	(II). Rate variable
(C). 	(III). Axillary variable
(D). 	(IV). Driving variable
(E). 	(V). Parameter

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

119	1003199	Maximum radiation use efficiency is a what type of model variable? (A). State Variable (B). Rate Variable (C). Auxiliary variable (D). Model parameter Choose the correct answer from the options given below: 1. (A) only. 2. (A) and (C) only. 3. (D) only. 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

120	1003200	Which statement are not true for the statistical models? (A). They are site-specific in nature (B). They reveal the underlying mechanism of causes effect (C). Require long-term data for their development (D). They do not respond well to extreme weather condition Choose the correct answer from the options given below: 1. (A) only. 2. (B) only. 3. (B), (C) and (D). 4. (B) and (C) only. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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