

PREVIEW QUESTION BANK

Module Name : Agricultural Meteorology-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		
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
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
Objective Question				
31	151011		4.0	1.00

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		
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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	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
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) <i>scheme</i>, 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	1003051	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) :Episodic shift in winds and water currents across the equatorial Pacific Ocean cause floods in south America while dwindling monsoon in India and Indonesia Reason (R) :During El Nino event, the water in the central and eastern Pacific Ocean become significantly colder the usual 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

72	1003052	Specific humidity is expressed in - ml g/cm^2 g/kg - per cent A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

73	1003053		4.0	1.00
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Given below are two statements:

Statement (I): When temperature of a certain mass of a gas is kept constant, the volume occupied by the gas is inversely proportional to the pressure exerted by the gas is explained by Charles Law

Statement (II): Both the Boyles law and Charle's law can be deduced from kinetic theory of gases

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

74	1003054	The surface winds in Ferrel Cells are_____ 1. Westerlies 2. Easterlies 3. Trade 4. Geostrophic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1003055	Given below are two statements: Statement (I): Dark areas on the solar disc referred to as Sunspots are the centre of strong magnetic fields Statement (II): The number of sunspots on the sun increase and decrease with a periodicity of about 11 years known as sunspot cycle leading to the variation of solar radiation by about 0.1 per cent 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	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

761003056

4.01.00

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

List-I	List-II
Phenomenon/Term	Date
(A).Aphelion	(I). June 21
(B).Perihelion	(II). March 21
(C). Solstice	(III). July 4
(D). Vernal equinox	(IV). January 3

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

77	1003057	The distribution of radiation in the crop canopy obeys _____ law of radiation 1. Wein's displacement Law 2. Lamberts cosine law 3. Beer's Law 4. Plank's Law A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

78	1003058		4.0	1.00
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Given below are two statements:

Statement (I): Cloud seeding with silver iodide is based on Bergeron Process

Statement (II): Cloud seeding is based on collision- coalescence theory

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

79	1003059	Arrange the following in proper sequence based on the types of evidence for climate change in ascending order of their approximate time scale: (A). Terrestrial deposits -glacial features (B). Wood records-tree rings (C). Historical data –documentation (D). Ocean sediments-plankton and isotopes Choose the correct answer from the options given below: 1. (A), (B), (C), (D). 2. (D), (B), (C), (A). 3. (C), (B), (A), (D). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1003060	The water held in the large pores of soil at a tension between 0.33 to 15 bars and available for the crops is called as 1. Hydroscopic water 2. Gravitational water 3. Capillary water 4. Field capacity	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

81	1003061	Given below are two statements: Statement (I): T-Phigram is a thermodynamic diagram used in the weather analysis and forecasting Statement (II): The Entropy is plotted on X-axis and temperature is plotted on the Y-axis of the T-Phigram In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1003062	Given below are two statements: Statement (I): In 1686 Edmund Halley explained Asiatic monsoon as resulting from thermal contrast between Ocean and Continents. Statement (II): The Halleys description of the process is essentially the same that involved in the land and sea breezes In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1003063		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Climate Type	Moisture Index
(A). Dry sub-humid	(I). 0-20
(B). Arid	(II). -33.3 to 0
(C). Moist sub-Humid	(III). -100 to -66.7
(D). Semi- Arid	(IV). -66.7 to -33.3

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84 1003064

4.0 1.00

Carbon dioxide theory of climate change advanced by_____

1. Solberg
2. Kennelly
3. TC Chmberlin
4. Aurther Holmes

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

85 1003065

4.0 1.00

Given below are two statements:

Statement (I): Drought resistance is the relative ability to maintain growth and yield with little or no major setback under moisture stress conditions

Statement (II): Drought avoidance permits a crop to grow for a longer time in given moisture stress

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

861003066

4.01.00

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

List-I	List-II
(Instruments)	(Parameters)
(A). Ceptometer	(I). Evaporative power of the air
(B). Ceilometer	(II). Rain drop size distribution
(C). Atmometer	(III). Above and below canopy PAR
(D). Disdrometer	(IV). Height of cloud base

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87	1003067		4.0	1.00
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What is the optimum wind speed for dew formation?

1. 1 to 3 m sec⁻¹
2. 5 to 10 m sec⁻¹
3. 15 to 20 m sec⁻¹
4. 20 to 25 m sec⁻¹

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

88	1003068	Given below are two statements: Statement (I): Synoptic weather forecasts are popular all over the world because simple atmospheric equations can be understood through synoptic charts Statement (II): The analysis and study of simultaneous weather observations over various space scales ranging from national, regional to global area coverage is referred to as synoptic meteorology 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

89	1003069	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Numerical weather prediction is successful in the tropical regions Reason (R) : This is due to weak gradients of meteorological parameters 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	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

90	1003070	Given below are two statements: Statement (I): Wind forecast depends upon the pressure distribution on the surface chart. Statement (II): Wider the isobars, stronger would be the wind speed. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

911003071

4.01.00

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

List-I	List-II
(Time limit of weather forecast)	(Parameters)
(A). Time of forecast upto 1 day	(I). Heavy rainfall
(B). Time of forecast upto 2 days	(II). Heat waves
(C). Time of forecast upto 3 to 5 days	(III). Average temperature and precipitation
(D). Time of forecast upto 6 to 10 days	(IV). Local storm

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92	1003072	Richardson number is the ratio between 1. Inertial force to viscous force 2. Frictional force to viscous force 3. Buoyant force to frictional force 4. Buoyant force to inertial force A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1003073	Which is true among the following where, 'Zo' is roughness length and 'd' is zero plane displacement 1. $Z_o > d$ 2. $Z_o < d$ 3. $Z_o = d$ 4. Cannot say definitely A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94	1003074	In case of a turbulent process which of the following is true? 1. Viscous force dominate over inertial force 2. Inertial force dominate over viscous force 3. Both forces balance 4. No relation between viscous force and turbulent process A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

95	1003075		4.0	1.00
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Given below are two statements:

Statement (I): Micrometeorologists refer to the inversion as any neutral atmospheric layer in which potential temperature increases with height.

Statement (II): The strength of inversion is expressed in terms of the difference of potential temperature across the given depth of the inversion layer

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

96	1003076	Given below are two statements: Statement (I): The density of wind break should increase logarithmically with height in accordance with the wind speed profile Statement (II): Windbreaks with a porosity of 30-40% in the lower half to give better results than solid windbreaks 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

97	1003077		4.0	1.00
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Given below are two statements:

Statement (I): The homeotherm animals maintain its body temperature, by physiological and metabolic mechanisms, a changing body temperature over a wide range of ambient temperature

Statement (II): The poikilotherm animals can modify its body temperature by other than behavioural responses and thus it ranges widely

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

98	1003078	Given below are two statements: Statement (I): The dew point temperature is independent of air temperature as long as the air remains unsaturated Statement (II): If the temperature drops below the dew point, moisture can be lost by condensation and dew point will, consequently be lowered 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

99	1003079	What is the radiation intensity in which maximum photosynthesis occur in C3 plants? 1. 0.2 to 0.8 cal cm⁻² min⁻¹ 2. 1.0 to 1.4 cal cm⁻² min⁻¹ 3. 2.0 to 2.8 cal cm⁻² min⁻¹ 4. 3.0 to 3.8 cal cm⁻² min⁻¹ A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

100	1003080	Which one of the following is the formula of monthly heat index (i) in Thornthwaite method? (T= Mean monthly temperature) 1. $i = (T/12)^{1.514}$ 2. $i = (T/5)^{1.514}$ 3. $i = (T/5)^{3.514}$ 4. $i = (T/12)^{3.514}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

101	1003081	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The rate of evaporation under identical conditions evaporation from sea water is about 2.3 per cent less than that from fresh water. Reason (R) : The general effect of salinity is to reduce evaporation. 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

102	1003082		4.0	1.00
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Which of the following is correct when the crop is fully covered with vegetation?

1. More than 60% of ET comes from transpiration.
2. More than 70% of ET comes from transpiration.
3. More than 80% of ET comes from transpiration.
4. More than 90% of ET comes from transpiration.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103	1003083	Arrange the following in ascending order (A). Kc value of rapeseed at maturity stage (B). Kc value of sesame at maturity stage (C). Kc value of sugarcane at mid stage (D). Kc value of garlic at mid stage Choose the correct answer from the options given below: 1. (A), (B), (C), (D). 2. (B), (A), (D), (C). 3. (C), (A), (D), (B). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	1003084	The rate of evaporation is the function of 1. Saturated vapour pressure (SVP) 2. Actual vapour pressure (AVP) 3. Summation of SVP and AVP 4. Difference between SVP and AVP A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

105	1003085	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Radiation method of estimation of evapotranspiration show good results in humid climate. Reason (R) : Aerodynamic term in humid climate is relatively small. 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

106	1003086	The pan coefficient mainly depends on - Day length and temperature - Day length and radiation - RH and wind speed - Seasons A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1003087		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Model processes)	(Form of model)
(A). Production level 1	(I). Potential production
(B). Production level 2	(II). Nutrient limited
(C). Production level 3	(III). Water limited production
(D). Production level 4	(IV). Pest limited production

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1003088

4.0 1.00

Time-series model, cross-section model and panel model are three main statistical methods of

1. Stochastic model.
2. Mechanistic model.
3. Deterministic model.
4. Empirical model.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

109 1003089

4.0 1.00

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

Assertion (A) : Crop simulation model is a mathematical model.

Reason (R) : Crop simulation model is a physical representation of a real object.

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

110 1003090

4.0 1.00

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

List-I	List-II
(Name of the model)	(Name of the crop)
(A). RESCAP	(I). Maize
(B). SIMAIZ	(II).Wheat
(C). SUBSTOR	(III). Sorghum
(D). SIMTAG	(IV). Potato

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111 1003091

4.0 1.00

In the popular system analysis model SPAW systems, W stands for

1. Weather
2. Water
3. Wheat
4. Windows

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112	1003092	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Operational model only bypasses some of the mechanistic details involved in a system. Reason (R) : Operational models are only statistical types. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below . 1. Both (A) and (R) are correct and (R) is the correct explanation of (A). 2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). 3. (A) is correct but (R) is not correct. 4. (A) and (R) are not correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

113	1003093		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Name of the models)	(Institute involved)
(A). Aquacrop	(I). Washington State University
(B). Cropsyst	(II). University of Leeds
(C). FarmSim	(III). FAO
(D). GLAM	(IV). Wageningen

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1003094

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 efficiency of radiation utilization increases with increasing light intensity

Reason (R) : This is due to the finite resistance to the diffusion of carbon di oxide through the leaf to the chloroplasts

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

115 1003095

4.0 1.00

Given below are two statements:

Statement (I): Temperature of around 20°C, during night, alternate with a day temperature around 30°C with a day light for about 14 hours have been found to predispose the crop to infection by rice blast disease.

Statement (II): Sunshine accelerate the development of the blast fungus and the spores do not germinate in diffuse sunlight.

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

116 1003096 4.0 1.00

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

List-I	List-II
(Type of drought)	(Definition.)
(A). This drought occurs when the surface and ground water resources are too inadequate to meet the demand of water	(I). Atmospheric drought
(B). This drought occurs when available soil moisture is inadequate for healthy crop growth and cause extreme stress and wilting	(II). Apparent drought
(C). This drought occurs when the rainfall in the region may be adequate for one crop but may not be so for others	(III). Hydrological drought
(D). This drought occurs in low humidity and hot, dry desiccating winds even under conditions of relatively high soil moisture	(IV). Agricultural drought

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117	1003097	4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Drought Mitigation approaches)	(Technology)
(A). Engineering	(I). Growth retardant
(B). Physiological	(II). Thick stems
(C). Genetic	(III). Cropping sequence
(D). Agronomic	(IV). Scooping of lands

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118 1003098

4.0 1.00

The cardinal temperatures (minimum, optimum and maximum) of sorghum crop is

1. 15 to 18°C, 31 to 37°C and 44 to 50°C
2. 12 to 15°C, 31 to 35°C and 36 to 40°C
3. 15 to 25°C, 26 to 30°C and 36 to 40°C
4. -2 to 5°C, 20 to 30°C and 30 to 40°C

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

119 1003099

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 Van't Hoff Law have general validity

Reason (R) : Because temperature exerts an opposite effect on photosynthesis and respiration

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

120 1003100

4.0 1.00

Given below are two statements:

Statement (I): The degree day concept assumes that the relationship between growth and temperature is linear not logarithmic as predicted by the Van't Hoff law.

Statement (II): The concept of degree days makes no allowance for threshold temperature changes with the advancing stage of crop growth.

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