

PREVIEW QUESTION BANK

Module Name : Soil and Water Conservation Engineering-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

4.0 1.00

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

Objective Question

21 101001

4.0 1.00

Given below are two statements:

Statement (I): The straight-line method is the most practical and most common for calculating depreciation

Statement (II): In the straight-line method, the amount of annual depreciation is equal to the new cost minus the trade-in value at the end of the assumed life, divided by the estimated life in years

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

22	101002	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Oblique cutting of plant material reduces the peak cutting process Reason (R) : In oblique cutting oblique angle is not equal to zero 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

23	101003	The correct sequence of power transmission in agricultural tractor is: (A). Engine (B). Drive wheels (C). Clutch (D). Crank shaft (E). Differential (F). Flywheel (G). Final drives (A), (B), (C), (D), (E), (F), (G) (A), (D), (F), (C), (E), (G), (B) (B), (A), (G), (D), (E), (C), (F) (C), (E), (B), (D), (F), (A), (G) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

24	101004		4.0	1.00
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Which type of mould board is preferred for more sticky soils where it is difficult for MB to scour well?

1. General purpose
2. Stubble
3. Sod
4. Slat

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

25	101005	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : To stop a tractor with implement at high speed, brakes are to be applied in addition to declutching Reason (R) : A device to declutch the tractor will not afford much protection to an implement when speed is high 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

26	101006	Given below are two statements: Statement (I): Aerobic fermentation of organic matter produces CO₂ and NH₃ while anaerobic fermentation produces CO₂ and CH₄ Statement (II): When the main aim is to render the material hygienic and recover plant nutrients for reuse in fields, the better practice to follow is anaerobic fermentation 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

27 101007

4.0

1.00

Given below are two statements:

Statement (I): Traditional biogas plants based on cowdung as feedstock can not be used for water hyacinth

Statement (II): Water hyacinth has tendency to float or settle in the bottom of traditional biogas plants

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

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

28 101008

4.0

1.00

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

List-I	List-II
Product	Conversion process
(A). Briquettes	(I). Thermo-chemical conversion
(B). Biodiesel	(II). Transesterification
(C). Biogas	(III). Physical conversion
(D). Producer gas	(IV). Bio-chemical conversion

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29	101009	Given below are two statements: Statement (I): Vegetable oils can be converted into biodiesel by a process of transesterification Statement (II): During biodiesel production glycerine remains on upper side and ester on lower side forming two distinct layers 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 true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - 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

30	101010	Gasohol contains: 90% ethanol 10% gasoline 50% ethanol 50% gasoline 75% ethanol 25% gasoline 10% ethanol 90% gasoline A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

31	101011	What will be the power generated from an arrangement having 244 solar cells connected in series (i.e. in a string) and 10 such solar strings connected in parallel? (Assume operating voltage of each photo-voltaic cell as 0.45 V and output current as 1.08 A) 10.8 kW 1.19 kW 5.4 kW 19.1 kW A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

32	101012	Contours of constant wind velocity are called: 1. Isodynes 2. Isohyets 3. Isobars 4. Isovents A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

33	101013	If the diameter (d) of horizontal axis rotor is doubled and wind speed (V) is halved, the available wind power (P_a) will: 1. remain same 2. increase by two times 3. reduce to half 4. increase by four times A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

34	101014	If the measured line voltages are 462, 463 and 455 volts in 3-phase system, the voltage unbalance measured in per cent is: 1. 1 2. 2 3. 3 4. 0 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

35	101015	Given below are two statements: Statement (I): Payback period does not take into consideration time value of money Statement (II): Net present value takes into consideration time value of money 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

36	101016	For which type of wheel, pull is zero? - self-propelled wheel - towed wheel - gauge wheel - land wheel of SCFD A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	101017	Cast steel crankshaft surface is hardened by: - Nitriding - Normalising - Carburising - Induction heating A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
38	101018	In drop forging, forging is done by dropping: 1. the work piece at high velocity 2. the hammer at high velocity 3. the die with hammer at high velocity 4. a weight on hammer to produce the requisite impact A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
39	101019	A 9-tyne seed drill operating at 5 km.h^{-1} is used to sow seed in 10.8 ha of land. If the furrow openers are 20 cm apart and the seed drill is working with an efficiency of 80%, what is the time required in hours to complete the sowing operation? 1. 15 2. 20 3. 25 4. 30 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	101020	Pressure at the lubrication oil exit of tractor engine is 1. 100-200 kPa 2. 200-300 kPa 3. 300-400 kPa 4. 400-500 kPa A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

41	101021	Given below are two statements: Statement (I): Basin lag is the time difference between the centroid of the input i.e. rainfall excess and the output i.e. surface runoff. Statement (II): Basin lag represents the time of travel of water particles from the mid place of the catchment to the outlet during a given storm. 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 true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - 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

42	101022	A graphical plot between rainfall intensity and time is called - Double mass curve - Hydrograph - Mass curve - Hyetograph A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

43	101023		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(A). Flood routing in storage reservoir	(I). Muskingum method
(B). Channel routing	(II). Sherman
(C). Unit hydrograph	(III). Snyder
(D). Synthetic unit hydrograph	(IV). Modified Pul's method

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

44 101024

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 Cipoletti weir is a popular contracted trapezoidal weir having notch slope of 1 horizontal to 4 vertical.

Reason (R) : The side slopes of 1 to 4 are just sufficient to correct for the end contraction of nappe and flow is proportional to the length of the weir crest.

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

45 101025

4.0 1.00

- (A). Hydraulic jump is used for reducing the energy of flow.
- (B). Hydraulic jump results in increasing the depth of flow.
- (C). When the flow of water changes from sub-critical to super critical, the hydraulic jump occurs.
- (D). When hydraulic jump occurs in a flowing channel, the velocity of flow increases.
- (E). Hydraulic jump is useful in aerating the city water supply.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46	101026	The recommended drainage periods for paddy and sugarcane is 1. 2 days 2. 3 days 3. 4 days 4. 7 days A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

47	101027	Given below are two statements: Statement (I): Drainage coefficient is used in the design of drainage systems for agricultural lands. Statement (II): Drainage coefficient is the depth of water in cm to be removed in 48 hours from the entire drainage area. 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

48 101028

4.0 1.00

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

List-I	List-II
(A). Evaporation	(I). Anemometer
(B). Infiltration	(II). Barometer
(C). Wind velocity	(III). Infiltrrometer
(D). Atmospheric pressure	(IV). Evaporimeter

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49 101029

4.0 1.00

Which sequence of water erosion is correct?

- (A).Spalsh erosion
- (B).Rill erosion
- (C).Gully erosion
- (D).Sheet erosion
- (E).Ravine erosion

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

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

A1 : 1

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
50	101030	Theoretically centrifugal pump can lift water from a maximum depth of 1. 4.33m 2. 6.33m 3. 8.33m 4. 10.33m A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
51	101031	(A). The level at which the water stands in a well before pumping starts is the static water level. (B). The pressure of water at static water level is atmospheric. (C). Pumping water level does not change with quantity of water being pumped. (D). Drawdown is the difference between the static water level and pumping water level. (E). Drawdown does not affect the yield of well. Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D) only. 4. (A), (C), (D) and (E) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	101032		4.0	1.00

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

Assertion (A) :In a rotating impeller two flows take place i.e. flow of fluid through the passage plus circulatory flow.

Reason (R) : When the impeller is rotated and water is pumped out, the water tends to rotate in a direction opposite to the direction of rotating impeller.

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

53	101033	AMC II generally refers to 1. Normal condition of soil wetness 2. Dry soil condition 3. Wet soil condition 4. Stoney soil condition A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

54	101034	Given below are two statements: Statement (I):The field application efficiency is the ratio of the required depth to the average applied depth. Statement (II):In level basins, the average depth applied to the field equals the average infiltrated depth as there is no surface runoff. 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	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

55	101035	The rate of application of sprinkler system is limited by 1. Strcuture of the soil 2. Infiltration capacity of the soil 3. Erodibility of the soil 4. Presence of organic matter in the soil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

56	101036	Given below are two statements: Statement (I):Permanent wilting percentage is the moisture content at which plants can no longer obtain enough moisture to meet transpiration requiremnet. Statement (II):The moisture tension of a soil at the permanent wilting point ranges from 1/10 to 1/3 atmosphere. 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

57	101037		4.0	1.00
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The steady state flow to a well completely penetrating confined aquifer is derived based on the assumption

- (A). Flow is two-dimensional
- (B). Aquifer is homogenous
- (C). The flow is not horizontal everywhere
- (D). Aquifer is isotropic

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

58	101038	Given below are two statements: Statement (I): The design of drip irrigation system consists of the system layout and determination of number of laterals for irrigation. Statement (II): The friction loss for mains and sub-mains in the drip system can be computed by Kostiakov equation. 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

59	101039		4.0	1.00
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Which of the followings are the sub-surface technique of artificial groundwater recharge?

(A). Injection well
(B). Recharge pit
(C). Recharge basin
(D). Recharge shaft

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

60	101040	Which type of greenhouse is used in hilly areas? 1. Lean to 2. Even-span 3. Uneven-span 4. Ridge and furrow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

61	101041		4.0	1.00
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For cleaning of granular material, a vibratory air-screen cleaner utilizes which among the following properties of feed material?

(A) Physical

(B) Aerodynamic

(C) Textural

(D) Frictional

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

62 101042

4.0 1.00

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

List-I	List-II
(A) Freezing	(I) Heat exchanger
(B) LMTD	(II) D-value
(C) Decimal reduction time	(III) Water activity
(D) BET equation	(IV) Eutectic temperature

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

63 101043

4.0 1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : If the temperature of air is increased without altering its humidity ratio, then the relative humidity of air reduces.

Reason (R) : Increase in dry-bulb temperature of air enhances water holding capacity of air.

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

64	101044	PUSA bin, developed by the ICAR-Indian Agricultural Research Institute, is categorised as - 1. Modern storage structure 2. Improved storage structure 3. Traditional storage structure 4. Bag storage structure A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

65	101045	Which among the following parameter(s) of a fruit can be determined by using the platform scale method? (A) Volume (B) Linear dimensions (C) Porosity (D) Specific gravity Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (A), (C) and (D) only. 3. (A) only. 4. (A) and (D) only. A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
66	101046	In calculating energy requirement for size reduction, 'work index' is related to - 1. Bond's and Kick's equation 2. Rittinger's equation 3. Bond's equation 4. Rittinger's and Kick's equation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
67	101047	Process of drying in which all grains are fully exposed to the drying air under constant drying conditions is known as - 1. Deep bed drying 2. Bunker drying 3. Thin layer drying 4. Constant rate drying A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
68	101048		4.0	1.00

Which among the following method(s) are employed for dehusking of pulses?

- (A) Pressure soaking
- (B) Application of edible oil
- (C) Alternate wetting and drying
- (D) Application of red earth

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

69	101049	Crystallization is the process in which -	4.0	1.00
		(A) Mass is transferred from a liquid solution to a pure crystal		
		(B) Mass is transferred from a solid medium to a pure crystal		
		(C) Mass is transferred from a liquid solution to a crystal of two components		
		(D) Mass is transferred from a solid medium to a crystal of two components		
		Choose the correct answer from the options given below:		
		1. (A) only.		
		2. (A) and (C) only.		
		3. (B) and (D) only.		
		4. (C) and (D) only.		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

70	101050		4.0	1.00
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Which of the following processes are regarded as mechanical separation operations?

- (A) Filtration
- (B) Centrifugal separation
- (C) Sedimentation
- (D) Sieving

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

71	1002051	Consider the following statements related to properties of aquifers. (A). Specific yield is the property of a semi-confined aquifer. (B). Hydraulic resistance is a property of semi-confined aquifer. (C). Transmissibility represents the water transmitting capacity of the entire thickness of confined and semi-confined aquifers. (D). The storage properties of confined and semi-confined aquifers are expressed by the coefficient of storage. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A) and (D) only. 3. (B), (C) and (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

72	1002052		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Pumps)	(Speciifc features / Issues)
(A). Close-coupled monoblock pump	(I). To keep pump close to water level
(B). Pumps connected with belt or gear drives	(II). Vertical impeller
(C). Horizontal centrifugal pump	(III). Removing motor for repair is not easy
(D). Vertical centrifugal pump	(IV). Horizontal impeller

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73	1002053	4.0	1.00
Given below are two statements: Statement (I): The cavity tube well does not have a strainer, but draws drilled water through the bottom of the well pipe. Statement (II): The cavity well is a shallow tube well drilled in an hard rock formations. 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			

Objective Question

74	1002054	4.0	1.00

When the porosity of soil is 35% and specific retention is 10%, then the specific yield would be -

1. 3.5%
2. 10%
3. 15%
4. 25%

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75 1002055

4.0 1.00

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

List-I	List-II
(Irrigation Projects)	(State)
(A). Malaprabha Project	(I). Maharashtra
(B). Koyna Project	(II). Gujarat
(C). Mayurakshi Project	(III). Karnataka
(D). Kakrapar Project	(IV). West Bengal

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

76 1002056

4.0 1.00

Given below are two statements:

Statement (I): Clay is an example of aquiclude.

Statement (II): Solid granite is an example of aquifuge.

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

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

771002057

4.01.00

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

List-I	List-II
(Forms of Precipitation)	(Specific features)
(A). Snow	(I). Fine droplets of less than 0.5 mm and intensity less than 1.0 mm h^{-1} .
(B). Drizzle	(II). Frozen raindrops of transparent grains
(C). Glaze	(III). Initial density - $0.06 - 0.15 \text{ g cm}^{-3}$.
(D). Sleet	(IV).Formation - At zero degree centigrade cold ground contact

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78	1002058		4.0	1.00
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Consider the statements related to surface runoff estimation by different methods.

- (A). Cook's method evaluates four watershed characteristics: relief, infiltration rate, vegetal cover and rainfall intensity.
- (B). The rational method is used for predicting the peak runoff rate.
- (C). Hydrograph method considers antecedent moisture condition of soil.
- (D). Curve number method considers different hydrological soil groups.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

79	1002059	Considering maximum rainfall depth as 15.4 cm and recharge capacity as 2.0 cm, the peak runoff rate would be - 1. 7.24 cm 2. 10.24 cm 3. 13.24 cm 4. 16.24 cm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1002060	Given below are two statements related to stream gauging and runoff measurement. Statement (I): Automatic stage level recorder will give data pertaining to height of water flow against chronological time. Statement (II): Sounding weights enable current meter to be positioned in a stable manner at the required location in flowing water. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
81	1002061	Consider the statements related to concept of hydrologic flood routing. (A). Flood routing is the computation of storage, when the outflow hydrograph is known. (B). Reservoir routing is the computation of inflow hydrograph to the reservoir. (C). The flood routing by hydrologic method is based on the equation of continuity. (D). With reference to hydraulic method, the flood routing is based on the equation of motion and continuity. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (B), (C) and (D) 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				
82	1002062	Arrange the following events of rainfall in the increasing order of rainfall intensity. (A). 5.0 cm of rainfall in 15 minutes (B). 170 mm of rainfall in 1.0 hour (C). 30 cm of rainfall in 2.0 hours (D). 10 mm of rainfall in 5 minutes. Choose the correct answer from the options given below: 1. (D), (C), (B), (A). 2. (B), (C), (A), (D). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

83	1002063	Consider the following statements related to erosion by water. (A). The climatic factors affecting erosion are precipitation, temperature, wind, humidity and solar radiation. (B). The clay particles are more difficult to detach than sand particles. (C). Sand particles are easy to transport in comparison to clay particles. (D). The organic matter in soil has no influence on water erosion. Choose the correct answer from the options given below: 1. (A) and (D) only. 2. (A) and (B) only. 3. (B) and (C) only. 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84

1002064

4.0

1.00

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

List-I	List-II
(Wind erosion estimation parameters)	(Features / Specific information)
(A). I - Soil erodibility index	(I). $0.16 \text{ (h}^2 \text{ d}^{-1}\text{)}$
(B). K - Ridge roughness factor	(II). Wind speed
(C). C - Climate factor	(III). Function of aggregates > 0.84 mm in diameter
(D). L - Unsheltered length of eroding field	(IV). Along the prevailing wind erosion direction

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question				
85	1002065	Given below are two statements related to design of drop structure components. Statement (I): The apron thickness is designed to counteract the uplift pressure. Statement (II): The side walls are subjected to earth pressure for which they are designed. 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 true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
86	1002066	Given below are two statements related to terraces classification by alignment. Statement (I): Non parallel terraces aid in farming operations than parallel terraces and should be constructed wherever possible. Statement (II): Parallel terraces require more cut and fill volumes during construction than non-parallel systems. 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 true. - Both Statement (I) and Statement (II) are false. - Statement (I) is true but Statement (II) is false. - Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
87	1002067	The area enclosed by contours with 1.0 m contour interval are 200, 250, 300, 350 and 400 m² respectively. Then the capacity of farm pond as per Simpson's formula would be - 900 m³ 1000 m³ 1100 m³ 1200 m³ A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

88	1002068	Arrange the following objects in the ascending order of emissivity. (A). Vegetation (B). Wet soil (C). Black body (D). Dry soil Choose the correct answer from the options given below: 1. (B), (A), (D), (C). 2. (A), (B), (D), (C). 3. (D), (B), (A), (C). 4. (B), (D), (A), (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1002069	Which among the following is a semi permanent gully control structure. 1. Loose rock check dam 2. Drop structure 3. Drop inlet structure 4. Chute spillway A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

90	1002070		4.0	1.00
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Given below are two statements:

Statement (I): The stream length ratio is defined as the average length of stream of any order to the average length of streams of the next higher order.

Statement (II): The circulatory ratio is the ratio of basin area to the square of the basin length.

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

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91 1002071

4.0 1.00

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

List-I	List-II
(Soil Orders)	(Major Characteristics)
(A). Entisols	(I). Argillic or natric horizon high to medium base saturation
(B). Alfisols	(II). High in swelling clays, deep cracks when soil dry
(C). Vertisols	(III). Little profile development, ochric epipedon common
(D). Histosols	(IV). Peat or bog > 30% organic matter

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92 1002072

4.0 1.00

Consider the statements related to different surveys in watershed areas.

- (A). Hydrological surveys in a watershed include determination of stream flow, runoff, sedimentation and water quality.
- (B). Climatic survey in watershed area includes information on precipitation, temperature, humidity, wind and evaporation.
- (C). Water resources survey generally covers water budget water use.
- (D). Socio-economic surveys are not important in planning watershed management programmes.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93	1002073	The number of streams of 1st and 2nd order in a watershed are 512 and 121 respectively. Then bifurcation ratio would be - 1. 0.24 2. 2.32 3. 3.52 4. 4.23 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94	1002074		4.0	1.00
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Consider the following four phases related to steps of watershed management planning and arrange them in the order of execution from starting to end process.

- (A). Protection phase
- (B). Improvement phase
- (C). Recognition phase
- (D). Restoration phase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

95 1002075

4.0 1.00

Consider the following statements related to machineries and equipments used for land levelling.

- (A). Rubber-tyred wheel type tractors equipped with scrapers are inefficient when applied to land levelling jobs.
- (B). Carrier-type scrapers drawn by crawler-type tractors have limited application in small scale land levelling jobs.
- (C). The operation of a land plane or float is carried out along the downfield slope of the field.
- (D). In a land plane, the scraper blade is provided at about the centre of the frame.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

96 1002076

4.0 1.00

The open channel flow is characterized by certain conditions.

(A) Flow in open channels take place due to gravity

(B) The flow in open channel is at atmospheric pressure

(C) The channel bottom slope is very small

(D) In normal flow condition the slope of the channel bottom S_o , slope of the water surface S_w and slope of the energy line S_f are same

1. Only A is Correct
2. Only A and B are Correct
3. Only A, B, and C are Correct
4. A, B, C, and D are Correct

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

97 1002077

4.0 1.00

Given below are two statements:

Statement (I): The most economical channel cross section is the one which gives the maximum rate of discharge with a given cost of excavation or the least amount of construction material used to obtain the given discharge.

Statement (II): Chezy's equation shows that the velocity of flow is the maximum if the hydraulic mean radius is minimum, as the values of C and S are generally constant.

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 1002078

4.0 1.00

The ratio of the inertia force to the elastic force is called

1. Reynold's number
2. Froude number
3. Weber number
4. Mach number

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

99	1002079	(A). Clay lining can be applied by two methods. These are (i) by placing a blanket of relatively impervious clay 15 to 30 cm thick, well cemented over and within the permeable channel bed and sides (B). Bentonite clay is noted for its high swelling and is extensively used for lining of reservoir. (C). The use of bentonite clay for irrigation channels has been perfected. (D). Concrete lining gives long service and repair & maintenance costs are minimum. (E). Concrete mixture usually recommended for lining is 1:3:4 Choose the correct answer from the options given below: 1. (A), (B), (D) and (E) only. 2. (A), (B), (C) and (D) only. 3. (B), (C), (D) and (E) only. 4. (A), (C), (D) and (E) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

100	1002080	According to Manning's formula, the discharge through an open channel is (where A = Area of flow, n = Manning's constant, R = Hydraulic mean depth, and S = Uniform slope in bed) 1. $\frac{1}{n} \times A \times R^{3/2} S^{1/2}$ 2. $\frac{1}{n} \times A \times R^{2/3} S^{1/2}$ 3. $\frac{1}{n} \times A R^{5/2} S^{1/2}$ 4. $\frac{1}{n} \times A R^{2/5} S^{1/2}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

101	1002081		4.0	1.00
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		Number of days generally required to obtain field capacity after free gravity drainage in Loam soils? 1. 2 to 3 days 2. 3 to 5 days 3. 5 to 9 days 4. 10 to 15 days A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
102	1002082	Soil moisture tension at the permanent wilting point corresponds to: 1. 1/3 bar 2. 2 bars 3. 5 bars 4. 15 bars A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
103	1002083	Read the following 4 statements and answer correctly. A. Irrigation scheduling is the process of determining when to irrigate and how much to irrigate? B. Scheduling can be done by measuring the soil moisture in the root zone. C. Sap flow meter used for measuring Evapotranspiration is a destructive method D. Crop Water Stress Index can be used for irrigation scheduling. 1. Only A and B are Correct 2. Only B and C are Correct 3. A, B, and C are Correct but D is incorrect 4. A, B, C, and D all are correct. A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
104	1002084	Given below are four statements. Identify the correct answer based on these statements. A. Over irrigation can be measured by measuring the soil moisture below the root zone. B. Water content – water potential relationship are different for different soils C. Tensiometers work in the tension range of 1/3 to 15 bars D. Sprinkler Irrigation Method can be successfully used in Heavy Textured Soils 1. Only the options A and B are Correct 2. Only options C and D are Correct 3. Options A, B are Correct but Options C, D are incorrect 4. Options A, B are incorrect but Options C, D are correct A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
105	1002085	Some statements given below are correct and some are incorrect. Find the correct answer based on these statements. A. SDD is the difference of canopy and air temperatures ($T_c - T_a$). B. The concept of stress degree days (SDD) is based on measurement of canopy temperature every day throughout the growing season. C. Cumulative SDD increases constantly with time D. SDD decreases with increasing plant water stress. 1. Only A and B are Correct 2. A, B and C are correct 3. A, B, C and D are Correct 4. A, B and C are correct but D is incorrect A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
106	1002086		4.0	1.00

Given are some statements. Some are correct and some incorrect: Identify the correct answer based on these statements.

- A) Border Irrigation Method is a controlled application method.
- B) In Furrow Irrigation Method the infiltration losses can be checked.
- C) Sprinkler Irrigation method is good for soils having high infiltration rates.
- D) Drip Irrigation method is a gravity application method.

1. Only A and B are correct
2. Only B and C are correct
3. A, B and C are correct
4. A, B and C are correct but D is incorrect

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

107 1002087

4.0 1.00

About the Net irrigation requirement (NIR), a few definitions are given below? Amongst these One answer is correct. Identify the correct answer.

- A) Amount of water required to meet the field irrigation requirements plus water lost in conveyance through the canal system
- B) The water required to meet the evaporation needs of a crop
- C) Amount of water required to be delivered at the field to meet evapotranspiration and leaching needs
- D) Amount of water required to meet the net irrigation requirements plus water lost due to surface runoff and percolation

1. A, B, C, and D all are Correct
2. Only A, B, and C are Correct
3. Only A is Correct
4. Only B is Correct

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1002088

4.0 1.00

The performance of an irrigation command can be expressed in terms of Crop Water Use Efficiency (CWUE) and Field Water Use Efficiency (FWUE).The correct expression of the Crop Water Use Efficiency (CWUE) is ?

1. Crop Yield/Total Water Applied
2. Crop Yield/ Total seasonal evapo-transpiration
3. Total Water Applied/Crop Yield
4. Total Evaporative Demand x Crop Yield

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

109 1002089

4.0 1.00

An irrigation project is classified as a major project when the CCA involved in the project is more than _____.

1. 10,000 hectares
2. 5,000 hectares
3. 3,000 hectares
4. 2,000 hectares

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1002090

4.0 1.00

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

Assertion (A) : Precision irrigation results in highly efficient utilization of water applied.

Reason (R) : The main reason behind this is least wastage or losses of water that are minimized as a result of precise application.

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

111 1002091

4.0 1.00

Choose the incorret one.

- (A). The drop structures are constructed either with brick masonry or with precast-concrete panel.
- (B). The structure use a head wall, side wall, stilling basin and end still
- (C). The stilling basin helps in the dissipation of the energy of the falling water
- (D). The width of the stilling besin is kept smaller than the width of the channel

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112	1002092	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Cation transport through soil with negatively charged mineral surfaces is more complex than anion transport. Reason (R) : Because of exchange adsorption. 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

113	1002093	The famous Hooghoudt's Drainage equation is an analytical equation. It is mostly used to find out the drainage spacing in the following conditions. Choose the most appropriate answer. 1. Transient Flow Conditions 2. Turbulent Flow Conditions 3. Unsteady State Condition 4. Steady State Condition	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
114	1002094	The energy balance equation for a crop canopy can be correctly written as; where R_n is Net Radiation (W/m^2), G is the heat flux below the canopy (W/m^2), H is the sensible heat flux (W/m^2) and $\lambda \times E$ is Latent heat flux to the air (W/m^2). 1. $R_n = H - G - (\lambda \times E)$ 2. $R_n = G - H + (\lambda \times E)$ 3. $R_n = G + H + (\lambda \times E)$ 4. $R_n = G + H - (\lambda \times E)$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	1002095	The famous Proportional Model of Solute Transport through Soil matrix is given as: $C_d = C_i / LF$ Where C_i is the salt concentration in Irrigation water, C_d is predicted drainage concentration and LF is Leaching Factor (Drainage rate/Irrigation rate). In this model the main assumption was made as: 1. The salt in solution moves through the soil with appropriate chemical reaction 2. The salt in solution moves through the soil without chemical reaction 3. The salt grossly remains immobile in the soil matrix 4. The salt gets settled on the soil surface A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
116	1002096		4.0	1.00

Main disadvantage of the plastic green house is:

1. Short life
2. Flexibility of the material
3. Ultraviolet protection
4. Light weight

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117	1002097	Which of the following is an advantage of protected cultivation? A. Higher cost of operation of GH B. High water productivity C. Higher use on nutrients and chemicals D. High production 1. A , D are correct but B, C are incorrect 2. A, C are correct but B, D are incorrect 3. A, C and D are correct but B is wrong 4. All are incorrect A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

118	1002098		4.0	1.00
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The design of the border irrigation consists in deciding

- (A). Width of border
- (B). Length of border
- (C). Stream site
- (D). Slope
- (E). Type of crop

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

119	1002099	One amongst the following is not the BIS code for Greenhouses 1. IS: 15827: 2009 2. IS: 14462 : 1997 3. IS: 15907 : 2010 4. IS: 15907 : 280 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

120	1002100		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) : High density poly ethylene (HDPE) is commonly used now a days for covering the Green Houses.

Reason (R) : High density poly ethylene (HDPE) is strong, durable and long lasting, highly flexible and can also provide Ultraviolet protection.

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