

PREVIEW QUESTION BANK

Module Name : Processing and Food 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
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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
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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
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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	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 <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

45	101025		4.0	1.00
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- (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
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
Objective Question				
57	101037		4.0	1.00

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
Objective Question				
61	101041		4.0	1.00

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
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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
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Objective Question

68	101048		4.0	1.00
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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	1002101	Given below are two statements: Statement (I): Humidity ratio is a measure of saturated vapour pressure of air relative to that if the air was saturated. Statement (II): The humidity ratio of a moist air will increase if the air is cooled on a constant enthalpy line. 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

72	1002102		4.0	1.00
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Given below are two statements:

Statement (I): The scraped surface heat exchangers are essentially shell & tube type heat exchangers.

Statement (II): The scraped surface heat exchangers are more suitable for viscous and heat sensitive foods than the plate type heat exchangers.

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

73	1002103	Given below are two statements: Statement (I): During diffusion, the rate of mass transfer per unit area per unit concentration difference is known as mass transfer coefficient 'k'. Statement (II): The mass transfer coefficient has the unit of m^2/s. 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

74	1002104		4.0	1.00
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Given below are two statements:

Statement (I): More amount of energy is required to evaporate bound moisture than free moisture in a grain.

Statement (II): Unbound moisture exerts equilibrium vapour pressure same as that of free water surface.

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

75	1002105	Given below are two statements: Statement (I): The hydraulic radius of a pipe having 12 cm diameter is 6 cm. Statement (II): The hydraulic radius is defined as perimeter/ 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 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

76	1002106		4.0	1.00
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Given below are two statements:

Statement (I): The bacterial destruction during thermal processing is an example of zero order reaction.

Statement (II): During a reaction, half-life is the time required for the reactant to reduce upto 66.6% of its original concentration.

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

77	1002107	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In chemical peeling, the temperature of the chemical solution is kept at $40^{\circ} - 60^{\circ}\text{C}$. Reason (R) : It is because higher temperature during chemical peeling causes cooking of the product. 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. Both (A) and (R) are false. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

78	1002108	The milling of rice in centrifugal sheller is due to 1. Impact 2. Shear 3. Friction 4. Both impact and shear A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

79	1002109	Given below are two statements: Statement (I): During the milling of corn, bolting refers to coarse separation made on a product. Statement (II): The tempering-degerming method is associated with the dry milling of corn. 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

80	1002110	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The ohmic heating method causes volumetric heating of food. Reason (R) : It is because the ohmic heaters emit short wave radiations. 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

81	1002111		4.0	1.00
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Given below are two statements:

Statement (I): The high pressure processing basically aims at reducing enzyme degradation of food.

Statement (II): High pressure processing is more effective for alkaline foods than acidic foods.

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

82	1002112	Given below are two statements: Statement (I): For a given power, the effective tension on the belt for a belt conveyor will reduce if the belt speed increases. Statement (II): The power requirement for a belt conveyor will increase with increase in belt speed. 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

83	1002113	Given below are two statements: Statement (I): For the same diameter of screw, the standard screw will have double the pitch than double flight screw. Statement (II): Tripper is a device used for unloading of materials after conveying in a screw conveyor. 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.	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

84	1002114	Given below are two statements: Statement (I): The drawn and wall ironed (DWI) cans are made from only tin plate. Statement (II): The DWI cans are not made from aluminum because aluminum cans cannot provide 100% freedom from pinholes. 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

85	1002115	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In an actively modified MAP/ CAS, dry ice is sometimes used for modification of package environment. Reason (R) : It is because the dry ice can absorb the carbon dioxide to bring it to the desired level. 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

86	1002116		4.0	1.00
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In case of aseptic filling of a liquid with flexible pouches, which of the following is commonly used for sterilization of packaging material?

1. Low pressure retort
2. High pressure retort
3. Hydrogen peroxide solution
4. Irradiation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87	1002117	Given below are two statements: Statement (I): The arrangement of equipment in a milk pasteurization plant is an example of process form of layout. Statement (II): The process form of layout can be a multistory layout. 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

88	1002118	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The CIP system in a food processing plant is used for automation of processing controls. Reason (R) : It is because the CIP system uses AI & machine learning for automation, which is more accurate than manual controls. 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. Both (A) and (R) are false. A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

89	1002119	Given below are two statements: Statement (I): The working element of a commercial fruit and vegetable slicer is made up of stellate alloy. Statement (II): Stellite alloy is obtained from of stainless steel and used to avoid corrosion in the food processing equipment. 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

90	1002120	Given below are two statements: Statement (I): The quality assurance in relation to food manufacture ensures that the food must meet ISO standard. Statement (II): The quality assurance in a food industry does not consider the quality of raw material. 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

91	1002121		4.0	1.00
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Given below are two statements:

Statement (I): Fourier number in a heat transfer application increases with the increase of the thermal diffusivity of solid.

Statement (II): Fourier number is applied only for steady state heat transfer.

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

92	1002122	Which of the following heat exchanger is not used for highly viscous fluids? 1. Plate type 2. Scraped surface type 3. Steam injection type 4. Steam infusion type A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1002123	For calculating freezing time using Plank's Equation, the constants C_1 and C_2 for slabs are 1. 2 and 6 2. 2 and 8 3. 4 and 8 4. 4 and 24 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94

1002124

4.0

1.00

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

List-I	List-II
(A). Oxygen absorber	(I). Calcium oxide
(B). Ethylene absorber	(II). Activated clay
(C). CO ₂ absorber	(III). Ascorbates
(D). Moisture absorber	(IV). Potassium permanganate

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

95

1002125

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

List-I	List-II
(A). Dalton's law	(I). Incompressible fluid flow
(B). Darcy's law	(II). Flow through porous media
(C). Bernoulli's equation	(III). Psychrometrics
(D). Lewis relation	(IV). Partial pressure of gases

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

96	1002126	Given below are two statements: Statement (I): $\eta = K\dot{\gamma}^{n-1}$, in this Herschel-Bulkley equation, the unit of K is Pa.s Statement (II): n is more than 1 for dilatant fluid 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

97	1002127	Kjeldhal method of Protein estimation of biological materials has the following steps (A). Ashing (B). Distillation (C). Digestion (D). Titration Choose the correct answer from the options given below: (A), (B) and (C) only. (A), (B) and (D) only. (A), (B), (C) and (D). (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1002128		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Maturity indices	fruits/ vegetables
(A). Tenderness	(I). Apple
(B). Fruit retention strength	(II). Citrus fruits
(C). Leaf changes	(III). Pea
(D). Juice content	(IV). Onion

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99 1002129

4.0 1.00

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

Assertion (A) : When a potato of 5 cm diameter is heated in a microwave (2450 MHz), the centre of the potato has the highest temperature

Reason (R) : The penetration depth of the microwaves is limited to 5 mm

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

100 1002130

4.0 1.00

Which of the following are discriminative sensory tests

- (A). Ranking
- (B). Pair comparison
- (C). Affective test
- (D). Triangle test

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101 1002131

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 rubber roller sheller, the differential roller speed ratio is 1:1.2

Reason (R) : Shearing and compression forces act for dehusking paddy

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102 1002132

4.0 1.00

In which of the following cases, mass transfer phenomena occur at room temperature

- (A). Freeze drying
- (B). Osmotic dehydration
- (C). Evaporation
- (D). Electrohydrodynamic drying

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

103	1002133	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The concentration of filtrated orange juice is faster Reason (R) : Ultrafiltration lowers the freezing point of the juice 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) is not correct but (R) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	1002134	Tea is prepared by dipping tea bags in hotwater. The process of preparing tea by infusion is known as 1. Filtration 2. Extraction 3. Sedimentation 4. Leaching A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

105 1002135

4.0 1.00

Given below are two statements:

Statement (I): Z -value is the temperature required to achieve 1 log reduction in the microbial population

Statement (II): D-value is the time required to achieve 1 log reduction in the microbial population at a given temperature

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

106 1002136

4.0 1.00

In a tunnel dryer, the conveyor belt has to travel a distance of 21 m in 10 min. The roller diameter is 100 mm. What should be the RPM of the roller?

1. 13.4
2. 6.7
3. 3.14
4. 1.6

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

107 1002137

4.0 1.00

The size of gears is determined in accordance with

- (A). Module
- (B). Number of teeth
- (C). Load
- (D). Pitch

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108	1002138	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In a counter-flow heat exchanger hot water and cold water at the inlet end are in the hottest state Reason (R) : The LMTD of counterflow is higher than parallel flow 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

109	1002139	The die assembly in an extruder is responsible for 1. Resistance to flow 2. Cooking 3. Mixing 4. Conveying A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1002140

4.0 1.00

Given below are two statements:

Statement (I): Discrete element method (DEM) can be used to model flow behaviour of granular materials in a conveying system

Statement (II): Computation fluid dynamics (CFD) can be coupled with DEM for designing spray drying system

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

111 1002141

4.0 1.00

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

List-I	List-II
Grain pressure theory	Equation
(A). Lateral pressure for shallow bin	(I). Janssens theory
(B). Static Grain pressure on the deep bin	(II). Janike's equation
(C). Dynamic grain pressure on the hopper wall	(III). Rankine theory
(D). Hopper opening size	(IV). Lvin theory

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

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
3. (A) - (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				
112	1002142	Grain storage 100 T Paddy is to be stored in the bag storage system, each of the bags having a 50 kg capacity. consider a stack of 10x10 and a maximum of 10 layers. How many stacks will be required to store 100 T paddy? 1. 5 2. 3 3. 2 4. 1 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
113	1002143	Insecticides recommended for fumigation in grain storage (A). Aluminium phosphide (B). Methyl bromide (C). Phosphine (D). carbon tetrachloride+carbon disulphide Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	1002144	For proper aeration, what should be the air flow rate for storing paddy in a silo system? 1. 0.03-0.048 m³/min/tonne 2. 0.08-0.096 m³/min/tonne 3. 0.07-0.28 m³/min/tonne 4. 1.6 m³/min/tonne	4.0	1.00

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
115	1002145	Given below are two statements: Statement (I): In cold storage, lighting contributes to sensible heat load. Statement (II): Respiration heat generated from agro commodity contributes to latent head 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				
116	1002146	Given below are two statements: Statement (I): Piezo-resistive pressure sensors work on the principle of change of resistance Statement (II): RTD works on the principle of change of electrical resistance 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
Objective Question				
117	1002147		4.0	1.00

Electrochemical biosensors are classified into

- (A). Piezoelectric biosensor
- (B). Potentiometric biosensor
- (C). Amperometric biosensor
- (D). Voltametric biosensor

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118	1002148		4.0	1.00
A typical machine vision system follows the steps (A) Feature extraction (B). Noise removal (C). Image aquisition (D). Thresholding Choose the correct answer from the options given below: 1. (C), (A), (D), (B). 2. (D), (A), (B), (C). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4				

Objective Question

119	1002149		4.0	1.00

Given below are two statements:

Statement (I): Remote monitoring and control can not be done through direct digital control

Statement (II): SCADA has the ability for multilocation monitoring

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

120 1002150

4.0 1.00

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

List-I	List-II
Sensor type	Measurable parameters
(A). DHT-22	(I). Temperature
(B). MQ-2	(II). Temperature and humidity
(C). PT100	(III). Pressure
(D). BMP280	(IV). Gas

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4