

PREVIEW QUESTION BANK

Module Name : Processing and Food Engineering - 41-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7 207

4.0 1.00

Given below are two statements:

Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time,

Statement (II): Weather is a condition of atmosphere at a given place and at a given time

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

8 208

4.0 1.00

The local name of cyclone in Phillippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alylosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
21	2001	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : A fluidised bed gasifier is most versatile and can handle biomass with high ash content. Reason (R) : Fluidised bed generally contains either inert material or reactive material. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	2002	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Noise Induced Hearing Loss (NIHL) is irreversible. Reason (R) : NIHL is even, being greater in lower frequency than higher frequency. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	2003		4.0	1.00

Given below are two statements:

Statement (I): The top of the piston heats much more than does the lower skirt

Statement (II): The pistons are made larger at the top to absorb excessive heat released during compression stroke, and are said to have skirt taper.

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

24 2004

4.0

1.00

Given below are two statements:

Statement (I): Premixed combustion is smoother and quieter than diffusion combustion.

Statement (II): The longer the ignition delay, the higher percentage of the fuel that burns in premixed combustion and lower the percentage that burns in diffusion combustion.

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

25 2005

4.0

1.00

Given below are two statements:

Statement (I): Hydrodynamic lubrication occurs when oil film is thick enough to prevent projections on one surface from contacting those projections on the mating surface.

Statement (II): All bearings in an engine are in hydrodynamic lubrication when the engine is started from rest or when it is coasting to a stop.

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

26 2006

4.0 1.00

Most of the gears fail from

- (A). bending fatigue
- (B). surface wear
- (C). stiff housing
- (D). pitting
- (E). curved surfaces

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), (B), (C) (D) and (E).

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 2007

4.0 1.00

Machine parameters those influence the performance of a combine harvester are

- (A). speed of reel
- (B). speed of threshing cylinder
- (C). extent of vibration
- (D). height of cut
- (E). speed of straw rack

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

28 2008

Choose the correct characteristics of the Darrieus rotor.

- (A). low starting torque
- (B). self-starting
- (C). high speed
- (D). potentially high capital cost
- (E). high efficiency

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

29 2009

4.0 1.00

Which of the following are air heat plate collectors based on absorbing surface?

- (A). flat plate absorber
- (B). sandwich type absorber
- (C). corrugated plate absorber
- (D). overlapped transparent plate absorber
- (E). transpiration absorber

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30	2010	Among the different type of combustion chambers, the peak pressure is the lowest for the 1. Open chamber 2. Precombustion chamber 3. Swirl combustion chamber 4. Auxiliary chamber A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

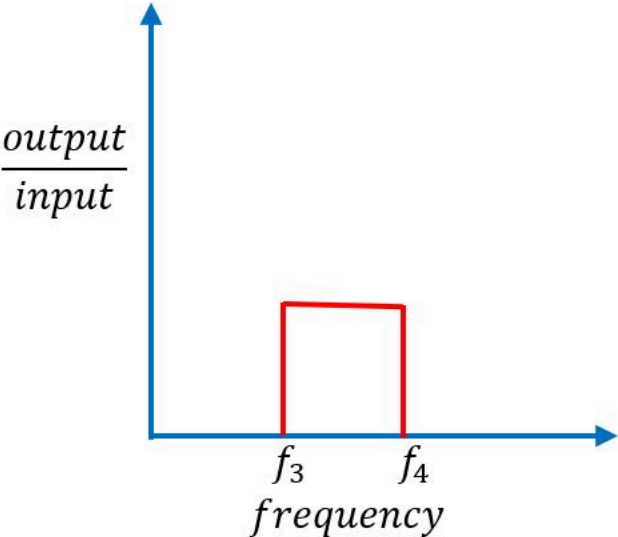
31	2011	Range of aspect ratio for high molded tyres 1. 0.50 or less 2. 0.50-0.75 3. 0.75-1.00 4. 1.00 or higher A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

32	2012	In the given figure, the amplitude ratio of output of a filter to the input is plotted against frequency. What is the type of the filter?  1. Low pass filter 2. High pass filter 3. Band pass filter 4. Notch type filter	4.0	1.00
		A1 : 1 A2 : 2 A3 : 3 A4 : 4		

Objective Question

33	2013	Which of the following is not a type of solar still? 1. Single effect solar still 2. Multiple effect solar still 3. Tilted tray solar still 4. Wick type solar still	4.0	1.00
		A1 : 1 A2 : 2 A3 : 3		

A4 : 4

Objective Question

34	2014	To minimize ride vibrations, the location of the operator's seat should be 1. Closer to steering wheel 2. Near to the centre of gravity 3. Directly above the rear axle 4. Slightly ahead of the rear axle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

35	2015	Which of the following is an obtuse angle-type furrow opener? 1. Shovel type 2. Pointed shoe type 3. Stub runner type 4. Hoe type A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

36	2016	What is the terminal velocity for the wheat chaff? 1. $1.5 - 2.5 \text{ m.s}^{-1}$ 2. $2.5 - 6.0 \text{ m.s}^{-1}$ 3. $6.0 - 9.5 \text{ m.s}^{-1}$ 4. $9.5 - 11.5 \text{ m.s}^{-1}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	2017	Which of the following threshing cylinder is used for producing very fine wheat straw? 1. Spike tooth type 2. Hammer mill type 3. Rasp-bar type 4. Axial flow type A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

38	2018	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Concave end of the disc harrow gang tends to penetrate more deeply than the convex end. Reason (R) : The radial force, which includes the vertical support force on the disc blade, must pass slightly to the rear of the disc centerline. 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

39	2019		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) : The power requirement of a rotary mower is much higher than that of a sickle bar mower of the same width.

Reason (R) : The knives of rotary mower are hinged to the disc or drum so that they can swing back if they hit a rock or other obstruction; centrifugal force keeps the knives in cutting position during normal operation.

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

40 2020

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

Assertion (A) : The rotating counterweight commonly provided on the flywheel of a mower pitman drive does not give complete balancing

Reason (R) : Inertia force of the knife varies as the square of crank speed and as the first power of stroke.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

41 2021

4.0 1.00

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

List-I	List-II
Structure Type	Return Period (Years)
(A). Earth dams having natural spillways	(I). 25
(B). Stock water dams	(II). 25-50
(C). Terrace outlets and vegetated waterways	(III). 15
(D). Field diversions	(IV). 10
	(V). 50-100

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42 2022

A linear reservoir is one in which storage is directly proportional to:

- Inflow
- Outflow
- Reservoir dimensions
- Stage

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

43 2023

4.0 1.00

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

List-I	List-II
(A). Percussion (cable tool) drilling	(I). Unconsolidated formations
(B). Rotary drilling	(II). Consolidated formations
(C). Artesian well	(III). Unconfined aquifer
(D). Perched aquifer	(IV). Confined aquifer
	(V). Semi-confined aquifer

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

44 2024

4.0 1.00

Given below are two statements:

Statement (I): Specific speed of the pump is directly proportional to the square root of head.

Statement (II): The specific speed for a single impeller centrifugal pump varies between 300 to 5000.

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

45	2025	Given below are two statements: Statement (I): Water requirement of the crops is lesser than the field irrigation requirement. Statement (II): Field irrigation requirement does not include contribution from other sources except irrigation. 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

462026

4.01.00

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

List-I	List-II
(A). $I=Kt^{-n}$	(I). Philip's equation
(B). $y=at+b(1-e^{-rt})$	(II). USSCS, 1964
(C). $St^{1/2}+At$	(III). Kostiakov's equation
(D). $y=at^a+b$	(IV). Lewis and Milne equation
	(V). Horton equation

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47	2027	Given below are two statements: Statement (I): Single crop coefficient approach is used for surface irrigation methods. Statement (II): Dual crop coefficient approach is used for micro irrigation methods. 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

48	2028	Given below are two statements: Statement (I): Blaney-Criddle method uses mean temperature and monthly percentage day time hours. Statement (II): Blaney-Criddle method was developed for the humid condition for consumptive use computation. 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

49	2029	Concrete mixture (Cement: Sand: Gravel or broken stone) usually recommended for lining of canals is: 1:2:3 1:3:2 1:3:5 1:3:4	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

50 2030

4.0 1.00

Given below are two statements:

Statement (I): A channel section is most economical when maximum discharge is obtained for a given cost of construction.

Statement (II): Discharge is maximum when the flow velocity is minimum.

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

51 2031

4.0 1.00

Drip emission uniformity (EU) is calculated using:

1. $100(1.5 - \frac{1.27 C_v}{\sqrt{n}}) \frac{q_a}{q_m}$
2. $100(1.0 - \frac{1.27 C_v}{\sqrt{n}}) \frac{q_m}{q_a}$
3. $100(2.0 - \frac{1.27 C_v}{\sqrt[3]{n}}) \frac{q_a}{q_m}$
4. $100(2.0 - \frac{1.27 C_v}{\sqrt[3]{n}}) \frac{q_m}{q_a}$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

52 2032

4.0 1.00

Leaching requirement (LR) is estimated using

1. $\frac{D_d}{D_i}$
2. $\frac{EC_d}{EC_i}$
3. $\frac{D_i}{D_d}$
4. $\frac{2EC_i}{EC_d}$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

53 2033

Light soils can be irrigated successfully across slope up to:

1. 2 %
2. 3 %
3. 5 %
4. 10 %

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

54 2034

Following are the statements regarding irrigation efficiencies:

- (A). Water conveyance efficiency is associated with the canal network.
- (B). Water application efficiency is related with the irrigation method.
- (C). Economic efficiency is related with the overall performance of the irrigation system.

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

4.0 1.00

A3 : 3

A4 : 4

Objective Question

55	2035	Following are the statements regarding sediment loads: (A). Bed load is associated with the movement of coarse particles along the bed surface through sliding, rolling and saltation. (B). Bed load forms less than 25 % portion of total load. (C). Suspended load of a stream is not measured by sampling the stream flow. 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).	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

56	2036	Time of concentration (T_c) is expressed by the following equation: 1. $0.0195 L^{0.77} S^{-0.385}$ 2. $0.0195 L^{0.77} S^{0.385}$ 3. $0.0195 L^{0.5} S^{0.5}$ 4. $0.0195 L^{0.6} S^{0.5}$	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

57	2037		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) : The lower and upper limit of the curve number corresponds to 0 and 100

Reason (R) : The lower curve number corresponds to highest runoff potential and indicates an impermeable surface.

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

58 2038

4.0 1.00

Following are the statements regarding grassed waterways:

- (A). The Manning's coefficient of roughness is 0.04 for design.
- (B). These are designed to carry maximum runoff from a storm of 10 years recurrence interval.
- (C). These are constructed across the land slope to remove excess water.

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

Objective Question

59 2039

4.0 1.00

The minimum length of shelter belt should be how many times of its height?

1. 12
2. 24
3. 36
4. 48

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

60 2040

4.0 1.00

Compute drainage coefficient if 1 hectare of land is drained and the drainage canal discharges 1 cubic meter of discharge per hour.

1. 1.2 mm
2. 2.4 mm
3. 4.8 mm
4. 7.2 mm

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

61 2041

4.0 1.00

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

List-I	List-II
(A). Janssen's theory	(I). Convection
(B). CAP	(II). Bag storage
(C). Newton's law	(III). Constant humidity
(D). Sensible heating	(IV). Storage structure

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

62	2042	Equation for predicting EMC of agricultural products is given by (A). Kelvin (B). Harkins-Jura (C). Henderson (D). Janssen Choose the correct answer from the options given below: 1. (A) and (C) only. 2. (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

63	2043	Given below are two statements: Statement (I): In a deep bin, plane of rupture strikes the opposite side of structure before it meets the grain surface. Statement (II): A grain bin can be classified as deep bin when the depth of grain is greater than the equivalent diameter. 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

64	2044		4.0	1.00
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Thermal vapour compression is used in

- (A). Evaporator
- (B). Homogenizer
- (C). Pasteurizer
- (D). Blancher

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

65	2045	Given below are two statements: Statement (I): Majority of the drying of agricultural produce fall under falling rate regime. Statement (II): Spray dryers are commonly used for liquid foods. 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

66	2046		4.0	1.00
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Ideal elastic behaviour of a material can be explained by

1. Newtonian liquid
2. St. Venant body
3. Hookean body
4. Janssen equation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

67 2047

4.0 1.00

In comparison to other types of conveyors, screw conveyors

1. Require relatively low power and are more susceptible to wear
2. Require relatively high power and are more susceptible to wear
3. Require relatively low power and are less susceptible to wear
4. Require relatively high power and are less susceptible to wear

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68 2048

4.0 1.00

Major functions of blanching of fruits and vegetables before dehydration and canning include

- (A). Inactivation of enzymes
- (B). Killing of pathogenic microbes
- (C). Softening of tissue
- (D). Cleaning of raw material

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

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

A1 : 1

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
69	2049	Glazing is related to which of the following crop processing? 1. Paddy 2. Wheat 3. Maize 4. Soybean A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
70	2050	Capacity of an air screen cleaner depends on which of the following parameters? (A). Grain bed depth (B). Size of screen surface (C). Feeding mechanism (D). Percentage opening area of screen Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A) and (C) only. 3. (A), (B), (C) and (D). 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
71	1002101		4.0	1.00

While doing a textural profile analysis (TPA) for cooked soy wadi, which of the following parameters deduced from the force versus displacement curve will best describe the product

- (A). Hardness
- (B). Cohesiveness
- (C). Gumminess
- (D). Chewiness

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), (D)
4. (A), (C) and (D) Only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72 1002102

4.0 1.00

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

List-I	List-II
Biochemical parameters	Tests /procedures
(A). Turbidity temperature	(I). Molisch' test
(B). Crude protein	(II). Halphens test
(C). Carbohydrate	(III). Bellier test
(D). Cyclopropanoid fatty acids	(IV). Bradford method

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73	1002103	Only 1% of the incident lights are transmitted in a pectin solution. What will be the absorbance value? 1. 99 2. 0 3. 1 4. 2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

74	1002104	Sensory evaluation Priya is developing millet biscuits with millet contents of 5%, 10% and 15%. The sensory panel will then evaluate these samples. Priya would then determine which of the formulations is more acceptable. What kind of sensory evaluation test would she be conducting? 1. Triangle tests 2. Duo-Trio test 3. Paired comparison test 4. Ranking test A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1002105		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) : The drag coefficient of a potato cube falling through air column is more than that of the spherical-shaped one.

Reason (R) : For a sphere which has a continuous geometry, the flow separation points are dependent on Reynolds number (Re), whereas for a cube, the leading edges are fixed points of separation while reattachment depends on Re .

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

76	1002106	Which of the following mathematical expressions can be used for predicting the moisture isotherms in foods. (A). GAB model (B). BET model (C). Langmuir model (D). Freundlich model 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	4.0	1.00
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Objective Question

77	1002107		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Heat and mass transfer Parameters	Dimensions
(A). Specific heat	(I). $M^1 L^2 T^{-1}$
(B). Thermal diffusivity	(II). $M^0 L^2 T^{-2} K^{-1}$
(C). Planck's constant	(III). $M^1 L^1 T^{-3} K^{-1}$
(D). Thermal conductivity	(IV). $M^0 L^2 T^{-1}$

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78 1002108

4.0 1.00

Given below are two statements:

Statement (I): Heat pump works on reverse Carnot cycle and transfers heat from a lower temperature body to a higher temperature body

Statement (II): The COP of heat pump and refrigeration system in the same temperature range is same

In light of the above statements, choose the *most appropriate* 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

Objective Question

79	1002109	According to Bernoulli's theorem, in a horizontal pipe, for an incompressible fluid 1. velocity is highest and pressure is lowest at the vena contracta 2. velocity is lowest and pressure is highest at the vena contracta 3. Both velocity and pressure are highest at the vena contracta 4. both velocity and pressure are lowest at vena contracta 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) : Counter flow heat exchangers with equal heat capacities give parallel and linear temperature profiles for both hot and cold fluid Reason (R) : Counter flow heat exchangers, both hot and cold fluid enters from the opposite direction, and flow direction is opposite 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

81	1002111	In the Engelberg rice huller, the simultaneous dehulling and debranning takes place, due to 1. Compression 2. Shear 3. Friction 4. Abrasion A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

82	1002112	Which of the models can best describe the microbial death kinetics in liquid (A). Langmuir model (B). Gompertz model (C). Weibull Model (D). Biphasic equation 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	4.0	1.00
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Objective Question

83

1002113

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

List-I	List-II
membranes	removes
(A). Ultrafiltration	(I). Divalent ions
(B). Microfiltration	(II). Colloidal materials
(C). Reverse osmosis	(III). Suspended particles
(D). Nanofiltration	(IV). Dissolved solids

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

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

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

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

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

4.0

1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84	1002114	Given below are two statements: Statement (I): D-value represents the time required at a specific temperature (T) to reduce a microbial population by 90% or by a factor of 10. Statement (II): Z-value is how long it takes to kill a specific bacterium at a specific temperature. 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

85	1002115	Net output of an extruder is - Pressure flow+drag flow+leakage flow - Drag flow-Pressure flow-Leakage flow - Drag flow+transient flow-pressure flow-leakage flow - Pressure flow-leakage flow+Drag flow 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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Mention the sequence of ethanol production from wet milling of corn :

- (A). Fermentation
- (B). Grinding
- (C). Degerming
- (D). Saccharification

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87	1002117	Macromolecules like proteins can be purified and separated using (A). Decantation (B). Chromatography (C). iso-electric precipitation (D). Gel-filtration 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	4.0	1.00
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Objective Question

88	1002118		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) : Minimal processed fruits and vegetables have lower shelf life

Reason (R) : They have fresh-like characteristics and are convenient to use

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

89	1002119		4.0	1.00
Given below are two statements: Statement (I): In-bin drying of seeds is meant for seeds with more than 14% moisture content Statement (II): Drying air temperature of seeds should be in the range 45-60 °C 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				

Objective Question

90	1002120		4.0	1.00

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

List-I	List-II
Processing	Mechanism
(A). Smoking	(I). Protease enzyme
(B). Meat tenderization	(II). Sterilization
(C). Curing	(III). Pyrolysis
(D). Canning	(IV). Osmosis

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91 1002121

4.0 1.00

Given below are two statements:

Statement (I): Air spargers are prided in the bioreactor for better dispersal of air

Statement (II): Impellers are used in fermentors to prevent vortexing

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

92	1002122	The cut-off diameter of a cyclone separator depends on (A). Inlet diameter (B). Inlet air velocity (C). Number of turns (D). Pressure drop 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	4.0	1.00
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Objective Question

93	1002123	Through which command in AUTOCAD, objects can be converted into discrete objects in apolyline 1. merge 2. Add 3. Combine 4. Join A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94	1002124	A shaft runs at 60 rpm and drives another shaft at 170 rpm through belt drive, neglecting the slip; what would be the velocity ratio 1. 6/17 2. 17/6 3. $6\pi/17$ 4. 17π A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

95	1002125	which gears are not used in intersecting axis (A). Spur gear (B). Bevel gear (C). Rack and Pinion (D). Helical gear 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. (A), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1002126	Given below are two statements: Statement (I): Positive displacement bucket elevators are used for abrasive materials Statement (II): Continuous-type bucket elevators are used for conveying fragile material 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

97	1002127	Online Bruise damage in fresh fruits and vegetables can be monitored by (A). Infrared imaging (B). Machine vision (C). Acoustic sensors (D). Hyperspectral imaging 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	4.0	1.00
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Objective Question

981002128

4.01.00

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

List-I	List-II
Type of damage to screw conveyor	cause
(A). motor overload	(I). high RPM
(B). accelerated flight wear	(II). Excessive torque
(C). shaft hole elongation	(III). motor undersized
(D). drive shaft breakage	(IV). frequent overloads

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99	1002129	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Active packaging technology focuses on maintaining the quality and enhancing the shelf-life of food products Reason (R) : The elements of active packaging systems indicate the freshness, quality, safety, and security of food products. 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

100	1002130	Cold chain operation and management can be done through (A). Internet of Things (B). Autocad (C). Blockchain technology (D). Cryptocurrency Choose the correct answer from the options given below: (A), and (C) only. (A), (B) and (C) 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

101	1002131		4.0	1.00
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The different biotic agents responsible for grain spoilage are

- (A). Moisture
- (B). Rat
- (C). Fungi
- (D). Insects

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

102 1002132

4.0 1.00

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

List-I	List-II
disinfestation means	disinfestation mechanism
(A). Celite	(I). Hypoxia
(B). Hermetic storage	(II). Insect DNA degradation
(C). Ozonation	(III). Desiccation
(D). Irradiation	(IV). Cell wall degradation

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103	1002133	Given below are two statements: Statement (I): Fumigation is meant to remove moisture from the grain and cool the grain Statement (II): During rainy season when insect activity increases, aeration should be given in every 15 days 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

104	1002134	which of the following numerical methods can be used to predict various thermo-physical and mass transfers within grain storage? (A). Finite difference method (B). Finite element method (C). Finite volume method (D). Discrete element method Choose the correct answer from the options given below: (A), (B) and (D) only. (A), (B) and (C) 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

105	1002135		4.0	1.00
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Given below are two statements:

Statement (I): The dockage in wheat includes dust, dirt, rye seed, shrivelled seed, insect body

Statement (II): Falling Number test and aflatoxins incidence are required for wheat quality evaluation

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	The major product evolved during anaerobic treatment of wastewater from food industry is 1. Carbon dioxide 2. carbon monoxide 3. Hydrogen sulphide 4. Methane A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1002137	Given below are two statements: Statement (I): The secondary road for approaching the process plant should not be less than 3 m width Statement (II): cooling towers should be as near as to the plant to take care of the heat generated. 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	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1002138

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 pipes in process plants are laid overhead in the processing unit

Reason (R) : The maintenance of pipes is easy without hindering the layout of the plants

In light of the above statements, choose the *most appropriate* 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

Objective Question

109 1002139

4.0 1.00

For screening the waste water, following screens are mostly frequently use

- (A). Rotary screen
- (B). Vibratory screen
- (C). Air screen filters
- (D). Static screen

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				
110	1002140	The secondary treatment used to remove particles from the wastewater are (A). Sedimentation (B). Anaerobic Lagoons (C). Trickling Filters (D). Activated Sludge 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	4.0	1.00
Objective Question				
111	1002141	which of the following is not a part of transducer element 1. sensing element 2. magnifier 3. Transducing element 4. signal processing unit A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
112	1002142		4.0	1.00

Given below are two statements:

Statement (I): Bimetallic strips use hot and cold junction phenomena to detect the temperature

Statement (II): In Resistance Temperature detectors, the resistance decreases with 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

113	1002143	Given below are two statements: Statement (I): Neural network can be used for pattern recognition Statement (II): Fuzzy logic is most suitable for classical binary logic 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

114	1002144		4.0	1.00
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Given below are two statements:

Statement (I): A data logger stores and processes data

Statement (II): A PID controller can measure the temperature and forward the data for processing to achieve the target value.

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

115	1002145	For virtual instrumentation, most common form of graphical programming used is through 1. Matlab 2. C++ 3. Python 4. Labview A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

116	1002146	A project planning should include a feasibility study based on (A). Economics (B). Social (C). Technical (D). commercial 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.	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117 1002147

4.0

1.00

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

List-I	List-II
Techno-economic analysis	(Author/Thinker/Name of Theory, etc.)
(A). Breakeven point	(I). Indication of the likelihood
(B). Sensitivity analysis	(II). No-loss no gain
(C). Payback period	(III). what-if analysis
(D). Risk analysis	(IV). time to recoup investment

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118 1002148

4.0

1.00

Given below are two statements:

Statement (I): PERT uses deterministic and is event-oriented

Statement (II): CPM is activity oriented and uses float concept

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				
119	1002149	If a convective drying system utilizes 40 kW energy while 10 kW energy is lost, what will be the efficiency of the system 1. 50% 2. 40% 3. 75% 4. 80% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002150	Which of the following certification is needed for food quality (A). BIS (B). AGMARK (C). FSSAI (D). ISI 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	4.0	1.00