

National Testing Agency

Question Paper Name :	Dairy Technology 17th September Shift 2
Subject Name :	DAIRY TECHNOLOGY
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Dairy Technology

Group Number :	1
Group Id :	190889112
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A: General Knowledge

Section Id :	190889260
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889300
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088912742 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

Options :

19088950861. 1
19088950862. 2
19088950863. 3
19088950864. 4

Question Number : 2 Question Id : 19088912743 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

Options :

- 19088950865. 1
- 19088950866. 2
- 19088950867. 3
- 19088950868. 4

Question Number : 3 Question Id : 19088912744 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Yellow vein mosaic is the viral disease of which of the following plants?

- 1. Ladyfinger
- 2. Papaya
- 3. Sugarcane
- 4. Banana

Options :

- 19088950869. 1
- 19088950870. 2
- 19088950871. 3
- 19088950872. 4

Question Number : 4 Question Id : 19088912745 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organ(s) is affected by Mumps disease?

- 1. Entire body
- 2. Skin
- 3. Eye
- 4. Parotid

Options :

- 19088950873. 1
- 19088950874. 2

19088950876. 4

Question Number : 5 Question Id : 19088912746 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

Options :

19088950877. 1

19088950878. 2

19088950879. 3

19088950880. 4

Question Number : 6 Question Id : 19088912747 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

Options :

19088950881. 1

19088950882. 2

19088950883. 3

19088950884. 4

Question Number : 7 Question Id : 19088912748 Question Type : MCQ Option Shuffling : No Is

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

Options :

19088950885. 1

19088950886. 2

19088950887. 3

19088950888. 4

Question Number : 8 Question Id : 19088912749 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

Options :

19088950889. 1

19088950890. 2

19088950891. 3

19088950892. 4

Question Number : 9 Question Id : 19088912750 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

Options :

19088950893. 1

19088950894. 2

19088950895. 3

19088950896. 4

**Question Number : 10 Question Id : 19088912751 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

Options :

19088950897. 1

19088950898. 2

19088950899. 3

19088950900. 4

**Question Number : 11 Question Id : 19088912752 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

Options :

19088950901. 1

19088950902. 2

19088950903. 3

19088950904. 4

Question Number : 12 Question Id : 19088912753 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

Options :

19088950905. 1

19088950906. 2

19088950907. 3

19088950908. 4

Question Number : 13 Question Id : 19088912754 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

Options :

19088950909. 1

19088950910. 2

19088950911. 3

19088950912. 4

Question Number : 14 Question Id : 19088912755 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

Options :

19088950913. 1

19088950914. 2

19088950915. 3

19088950916. 4

Question Number : 15 Question Id : 19088912756 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

Options :

19088950917. 1

19088950918. 2

19088950919. 3

19088950920. 4

Question Number : 16 Question Id : 19088912757 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

Options :

19088950921. 1

19088950922. 2

19088950923. 3

19088950924. 4

Question Number : 17 Question Id : 19088912758 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

Options :

19088950925. 1

19088950926. 2

19088950927. 3

19088950928. 4

Question Number : 18 Question Id : 19088912759 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

Options :

19088950929. 1

19088950930. 2

19088950931. 3

19088950932. 4

Question Number : 19 Question Id : 19088912760 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

Options :

19088950933. 1

19088950934. 2

19088950935. 3

19088950936. 4

**Question Number : 20 Question Id : 19088912761 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Micro-irrigation fund of Rs. 5,000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

Options :

19088950937. 1

19088950938. 2

19088950939. 3

19088950940. 4

Part B Core : Dairy Science: Dairy Technology & Food Technology

Section Id : 190889261

Section Number : 2



Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889301
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 19088912762 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

The casein fraction which has maximum carbohydrates associated with it is _____.

- | | |
|-----------|-----------|
| (1) Alpha | (2) Beta |
| (3) Kappa | (4) Gamma |

Options :

19088950941. 1
19088950942. 2
19088950943. 3
19088950944. 4

Question Number : 22 Question Id : 19088912763 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

What is the proportion in which buffalo milk with 6.5% fat and low fat milk with 0.5% fat are to be combined in order to produce mixed milk conforming to standardized milk fat standards?

- | | |
|-----------|-----------|
| (1) 1 : 1 | (2) 2 : 1 |
| (3) 1 : 2 | (4) 1 : 3 |

Options :

19088950945. 1

19088950946. 2

19088950947. 3

19088950948. 4

Question Number : 23 Question Id : 19088912764 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The environmental management of a dairy plant is denoted by the ISO series _____.

(1) 9000

(2) 11000

(3) 14000

(4) 22000

Options :

19088950949. 1

19088950950. 2

19088950951. 3

19088950952. 4

Question Number : 24 Question Id : 19088912765 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

- 19088950953. 1
- 19088950954. 2
- 19088950955. 3
- 19088950956. 4

Question Number : 25 Question Id : 19088912766 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Deficiency of calcium in the diet leads to

- | | |
|------------------|-------------|
| (1) Goitre | (2) Anemia |
| (3) Osteoporosis | (4) Rickets |

Options :

- 19088950957. 1
- 19088950958. 2
- 19088950959. 3
- 19088950960. 4

Question Number : 26 Question Id : 19088912767 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

_____ is an example of a medical food.

- | | |
|---------------------------|-----------------------------|
| (1) Sports drinks | (2) Symbiotic yoghurt |
| (3) Flavoured dairy drink | (4) Lactose hydrolysed milk |

Options :

- 19088950961. 1
- 19088950962. 2
- 19088950963. 3
- 19088950964. 4

Question Number : 27 Question Id : 19088912768 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The antimicrobial protein found in milk is

- | | |
|-----------------------|----------------------------|
| (1) Glycomacropeptide | (2) Lactoferrin |
| (3) MGF protein | (4) β -Lactoglobulin |

Options :

19088950965. 1

19088950966. 2

19088950967. 3

19088950968. 4

Question Number : 28 Question Id : 19088912769 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The protein content in retentate can be further increased using

- | | |
|---------------------|---------------------|
| (1) Diafiltration | (2) Nanofiltration |
| (3) Microfiltration | (4) Reverse osmosis |

Options :

19088950969. 1

19088950970. 2

19088950971. 3

19088950972. 4

Question Number : 29 Question Id : 19088912770 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

19088950973. 1

19088950974. 2

19088950975. 3

19088950976. 4

Question Number : 30 Question Id : 19088912771 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : It is, in general difficult to stabilize a water in oil emulsion.

Reason (R) : Charge effects are not applicable and only steric stabilization is possible in W/O emulsions.

In the 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

Options :

19088950977. 1

19088950978. 2

19088950979. 3

19088950980. 4

Question Number : 31 Question Id : 19088912772 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is an example of sparkling wine?

- | | |
|---------------|--------------|
| (1) Port Wine | (2) Sherry |
| (3) Champagne | (4) Red wine |

Options :

19088950981. 1

19088950982. 2

19088950983. 3

19088950984. 4

Question Number : 32 Question Id : 19088912773 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Maximum heat damage occur during the _____ of drying.

- | | |
|-------------------------|--------------------------|
| (1) Falling Rate Period | (2) Constant Rate Period |
| (3) Come-up Period | (4) Post drying stage |

Options :

19088950985. 1

19088950986. 2

19088950987. 3

19088950988. 4

Question Number : 33 Question Id : 19088912774 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is absent in cocoa butter?

- | | |
|-------------------|-----------------|
| (1) Palmitic acid | (2) Oleic acid |
| (3) Stearic acid | (4) Lauric acid |

Options :

19088950989. 1

19088950990. 2

19088950991. 3

19088950992. 4

**Question Number : 34 Question Id : 19088912775 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which among the following is the reduced form of myoglobin?

(1) Oxymyoglobin

(2) Metmyoglobin

(3) Oxygenated myoglobin

(4) Deoxymyoglobin

Options :

19088950993. 1

19088950994. 2

19088950995. 3

19088950996. 4

**Question Number : 35 Question Id : 19088912776 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Extensive heating of starchy rich food material may leads to the formation of _____.

(1) Resistant starch

(2) Histamine

(3) Acrylamide

(4) Waxy starch

Options :

19088950997. 1

19088950998. 2

19088950999. 3

19088951000. 4

Question Number : 36 Question Id : 19088912777 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is not a reconstitution property of milk powder?

- | | |
|-------------------|--------------------|
| (1) Sinkability | (2) Wettability |
| (3) Agglomeration | (4) Dispersibility |

Options :

19088951001. 1

19088951002. 2

19088951003. 3

19088951004. 4

Question Number : 37 Question Id : 19088912778 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Malolactic Fermentation	(I) Bread
(B) Pitching	(II) Wine
(C) Dextrinization	(III) Meat
(D) Stunning	(IV) Beer

Choose the correct answer from the options given below :

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

Options :

19088951005. 1

19088951006. 2

19088951007. 3

19088951008. 4

Question Number : 38 Question Id : 19088912779 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Cake flour is often subjected to chlorination to improve the quality of cake.

Reason (R) : Chlorination bleaches the carotenoids of wheat flour, and impart whiteness. It also oxidizes flour starch which swells more on gelatinization.

In the 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

Options :

19088951009. 1

19088951010. 2

19088951011. 3

19088951012. 4

Question Number : 39 Question Id : 19088912780 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Fruits like mango are exposed to Vapour Heat Treatment (VHT) before export as quarantine measure.

Reason (R) : Exposure to vapour check the biosynthesis of ethylene and thus inhibit ripening process.

In the 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

Options :

19088951013. 1

19088951014. 2

19088951015. 3

19088951016. 4

Question Number : 40 Question Id : 19088912781 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Food emulsions exhibits _____ type of rheological behaviour.

- | | |
|--------------------|----------------------|
| (1) Newtonian | (2) Rheopectic |
| (3) Shear thinning | (4) Shear thickening |

Options :

19088951017. 1

19088951018. 2

19088951019. 3

19088951020. 4

Question Number : 41 Question Id : 19088912782 Question Type : MCQ Option Shuffling : No

Correct Marks : 4 Wrong Marks : 1

Average Magnesium (Mg) content of raw milk is about

- | | |
|-------------------|--------------------|
| (1) 1.2 mg/100 ml | (2) 12 mg/100 ml |
| (3) 120 mg/100 ml | (4) 0.12 mg/100 ml |

Options :

19088951021. 1

19088951022. 2

19088951023. 3

19088951024. 4

Question Number : 42 Question Id : 19088912783 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Volumetric method for detection of lactose in milk

- | | |
|-------------------------|---------------------------|
| (1) Lane-Eynon Method | (2) Werner-Schimdt Method |
| (3) Polarimetric Method | (4) Rose-Gottleib Method |

Options :

19088951025. 1

19088951026. 2

19088951027. 3

19088951028. 4

Question Number : 43 Question Id : 19088912784 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Crude protein content of milk and milk product is calculated by multiplying nitrogen content with factor

- | | |
|----------|----------|
| (1) 6.25 | (2) 6.38 |
| (3) 6.30 | (4) 5.75 |

Options :

19088951029. 1

19088951030. 2

19088951031. 3

19088951032. 4

Question Number : 44 Question Id : 19088912785 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Vacreation refers to

- | | |
|---------------------------|--------------------------|
| (1) Vaccum packaging | (2) Vaccum sterilization |
| (3) Vaccum pasteurization | (4) Vaccuum creation |

Options :

19088951033. 1

19088951034. 2

19088951035. 3

19088951036. 4

Question Number : 45 Question Id : 19088912786 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

For selection of wavelength, spectrophotometer uses :

- | | |
|-------------------|----------------|
| (1) Processor | (2) Transducer |
| (3) Monochromator | (4) Slit |

Options :

19088951037. 1

19088951038. 2

19088951039. 3

19088951040. 4

Question Number : 46 Question Id : 19088912787 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Following product exhibit maximum heat induced changes

- | | |
|------------------------------|---------------------|
| (1) Sweetened Condensed Milk | (2) Evaporated milk |
| (3) Khoa | (4) Milk Powder |

Options :

19088951041. 1

19088951042. 2

19088951043. 3

19088951044. 4

Question Number : 47 Question Id : 19088912788 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Casein : Fat ratio is adjusted in cheese milk to

- | | |
|-----------------|-----------------|
| (1) 0.45 – 0.60 | (2) 0.68 – 0.70 |
| (3) 0.68 – 0.80 | (4) 0.60 – 0.70 |

Options :

19088951045. 1

19088951046. 2

19088951047. 3

19088951048. 4

Question Number : 48 Question Id : 19088912789 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

During cheese making enzyme rennet acts on

- | | |
|--------------------------|---------------------|
| (1) αS_1 -Casein | (2) β -Casein |
| (3) αS_2 -Casein | (4) K-Casein |

19088951049. 1

19088951050. 2

19088951051. 3

19088951052. 4

**Question Number : 49 Question Id : 19088912790 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

For which of the water soluble vitamin milk is the only source for vegetarians

- | | |
|----------------|--------------------|
| (1) Folic acid | (2) Cyanocobalamin |
| (3) Thiamin | (4) Biotin |

Options :

19088951053. 1

19088951054. 2

19088951055. 3

19088951056. 4

**Question Number : 50 Question Id : 19088912791 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

As per FSSAI, 2006, maximum free fatty acid content (% oleic acid) in ghee is

- | | |
|----------|----------|
| (1) 1.5% | (2) 3% |
| (3) 2.5% | (4) 3.5% |

Options :

19088951057. 1

19088951058. 2

19088951059. 3

19088951060. 4

Question Number : 51 Question Id : 19088912792 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The area of pipe at section XX' is 315 cm^2 . The area of pipe at section YY' is twice the area of section XX'. The velocity at section XX' is 4.5 m/sec . Find the velocity at section YY'. Also determine flow rate through the pipe.

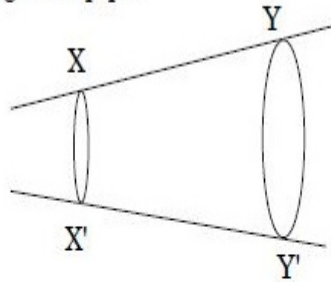


Fig. 1

- (1) $V = 2.25 \text{ m/sec}$, $Q = 0.14175 \text{ m}^3/\text{sec}$
- (2) $V = 22.25 \text{ m/sec}$, $Q = 0.14175 \text{ m}^3/\text{sec}$
- (3) $V = 2.25 \text{ m/sec}$, $Q = 1.4175 \text{ m}^3/\text{sec}$
- (4) $V = 22.25 \text{ m/sec}$, $Q = 1.4175 \text{ m}^3/\text{sec}$

Options :

19088951061. 1

19088951062. 2

19088951063. 3

19088951064. 4

Question Number : 52 Question Id : 19088912793 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The thermal conductivity of frozen food is _____ than foods at normal temperature.

- (1) Lower
- (2) Higher
- (3) Same
- (4) Can not predict

Options :

19088951065. 1

19088951066. 2

19088951068. 4

Question Number : 53 Question Id : 19088912794 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following arrangement could eliminate the use of pump between effects in evaporation?

- | | |
|------------------|----------------------------------|
| (1) Forward feed | (2) Backward feed |
| (3) Mixed feed | (4) Its theoretically impossible |

Options :

19088951069. 1

19088951070. 2

19088951071. 3

19088951072. 4

Question Number : 54 Question Id : 19088912795 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ingress of oxygen into the package _____.

- (1) Decrease the activities of the enzymes
- (2) Increase the activities of the enzyme
- (3) No change in the activities of the enzyme
- (4) Initially increase followed by decrease in enzyme activity

Options :

19088951073. 1

19088951074. 2

19088951075. 3

19088951076. 4

Question Number : 55 Question Id : 19088912796 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The heating mechanism of microwave processing is

- | | |
|------------------------|----------------------|
| (1) Dipole rotation | (2) Infrared heating |
| (3) Ionic polarization | (4) Both (1) and (3) |

Options :

19088951077. 1

19088951078. 2

19088951079. 3

19088951080. 4

Question Number : 56 Question Id : 19088912797 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The water sorption by a food is independent of _____ .

- | | |
|------------------------------------|---|
| (1) Composition | (2) Physico-chemical state of ingredients |
| (3) Physical structure of the food | (4) Exposure to light |

Options :

19088951081. 1

19088951082. 2

19088951083. 3

19088951084. 4

Question Number : 57 Question Id : 19088912798 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

- 19088951085. 1
- 19088951086. 2
- 19088951087. 3
- 19088951088. 4

Question Number : 58 Question Id : 19088912799 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The HTST process involves heating milk to

- | | |
|---------------------|-----------------------|
| (1) 62°C for 30 min | (2) 72°C for 15 sec |
| (3) 65°C for 15 min | (4) 100°C for < 1 sec |

Options :

- 19088951089. 1
- 19088951090. 2
- 19088951091. 3
- 19088951092. 4

Question Number : 59 Question Id : 19088912800 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is known as heart of the vapour compression refrigeration system?

- | | |
|---------------|----------------|
| (1) Condenser | (2) Evaporator |
| (3) Receiver | (4) Compressor |

Options :

- 19088951093. 1
- 19088951094. 2
- 19088951095. 3

Question Number : 60 Question Id : 19088912801 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the full form of PLC?

- | | |
|--------------------------------|-------------------------------|
| (1) Programmable Logo Control | (2) Preventable Logic Control |
| (3) Programmable Logic Control | (4) Processed Linear Control |

Options :

19088951097. 1

19088951098. 2

19088951099. 3

19088951100. 4

Question Number : 61 Question Id : 19088912802 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Two agreement which are coming into force after Uruguay sound of multilateral Trade Negotiations are

- (A) TBT and SPS
- (B) TRIPS and SPS
- (C) GATT and WTO
- (D) TBT and GATT

Choose the most appropriate answer from the options given below :

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

Options :

19088951101. 1

19088951102. 2

19088951103. 3

19088951104. 4

Question Number : 62 Question Id : 19088912803 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A failure to meet quality requirement is known as

- (A) Conformity
- (B) Observation
- (C) Non-conformity
- (D) Unsatisfactory

Choose the most appropriate answer from the options given below :

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

Options :

19088951105. 1

19088951106. 2

19088951107. 3

19088951108. 4

Question Number : 63 Question Id : 19088912804 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Faecal Indicator of milk is

- | | |
|----------------|---------------------------|
| (1) Coliforms | (2) Escherichia coli |
| (3) Salmonella | (4) Enterococcus faecalis |

Options :

19088951109. 1

19088951110. 2

19088951111. 3

19088951112. 4

Question Number : 64 Question Id : 19088912805 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Father of Medical Microbiology

- | | |
|-------------------|--------------------------|
| (1) Louis Pasteur | (2) Joseph Lister |
| (3) Robert Koch | (4) Anton Von Leewanhook |

Options :

19088951113. 1

19088951114. 2

19088951115. 3

19088951116. 4

Question Number : 65 Question Id : 19088912806 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ISO Standard for Food Safety is

- | | |
|---------------|---------------|
| (1) ISO 9001 | (2) ISO 22000 |
| (3) ISO 14001 | (4) ISO 17025 |

Options :

19088951117. 1

19088951118. 2

19088951119. 3

19088951120. 4

Question Number : 66 Question Id : 19088912807 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Common activity test used for starter culture

- (A) Microscopic examination
- (B) Horrel Elliker test
- (C) Morphological examination
- (D) Growth on medium

Choose the most appropriate answer from the options given below :

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

Options :

19088951121. 1

19088951122. 2

19088951123. 3

19088951124. 4

**Question Number : 67 Question Id : 19088912808 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Father of Biosensor is

- (A) Leoland C Clark
- (B) Leoland F Clark
- (C) Biacore
- (D) Ferland

Choose the most appropriate answer from the options given below :

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

Options :

- 19088951125. 1
- 19088951126. 2
- 19088951127. 3
- 19088951128. 4

Question Number : 68 Question Id : 19088912809 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the diseases are caused by *Coxiella burnetii*?

- (A) Tuberculosis
- (B) Brucellosis
- (C) 'Q' fever
- (D) Malta fever

Choose the most appropriate answer from the options given below

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

Options :

- 19088951129. 1
- 19088951130. 2
- 19088951131. 3
- 19088951132. 4

Question Number : 69 Question Id : 19088912810 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Eijkmen test is used for the detection of

- (A) Coliforms
- (B) Coliphages
- (C) E. coli
- (D) Enterococci

Choose the most appropriate answer from the options given below :

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

Options :

19088951133. 1

19088951134. 2

19088951135. 3

19088951136. 4

Question Number : 70 Question Id : 19088912811 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Pathogenic bacteria major concern in sweetened condensed milk

- (A) E. coli
- (B) Listeria monocytogenes
- (C) Staphylococcus aureus
- (D) Campylobacter jejuni

Choose the most appropriate answer from the options given below :

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

Options :

- 19088951137. 1
- 19088951138. 2
- 19088951139. 3
- 19088951140. 4

Part C : Dairy Technology

Section Id :	190889262
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889302
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 19088912812 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Amorphous lactose is formed during

- | | |
|-------------------|-------------------|
| (1) Slow cooling | (2) Rapid cooling |
| (3) Rapid heating | (4) Slow heating |

Options :

19088951141. 1

19088951142. 2

19088951143. 3

19088951144. 4

Question Number : 72 Question Id : 19088912813 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Long narrow pipes are avoided while transporting cream to prevent

- | | |
|------------------------|-------------------------|
| (1) fat oxidation | (2) clumping of fat |
| (3) microbial spoilage | (4) separation of cream |

Options :

19088951145. 1

19088951146. 2

19088951147. 3

19088951148. 4

Question Number : 73 Question Id : 19088912814 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

19088951149. 1

19088951150. 2

19088951151. 3

19088951152. 4

Question Number : 74 Question Id : 19088912815 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ratio of stress to strain in linear visco-elastic behaviour is independent of

(1) Time

(2) Nature of material

(3) Linear circuit

(4) Strain magnitude

Options :

19088951153. 1

19088951154. 2

19088951155. 3

19088951156. 4

Question Number : 75 Question Id : 19088912816 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A) : During the process of cleaning and sanitization, neither dirt nor microbes can be removed or inactivated completely.

Reason (R) : There are no completely effective cleaning or sanitizing agent that can achieve the above.

In the 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

Options :

19088951157. 1

19088951158. 2

19088951159. 3

19088951160. 4

Question Number : 76 Question Id : 19088912817 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The extent to which a cheese can be deformed before it ruptures is _____.

- | | |
|-----------------|------------------|
| (1) Springiness | (2) Cohesiveness |
| (3) Chewiness | (4) Gumminess |

Options :

19088951161. 1

19088951162. 2

19088951163. 3

19088951164. 4

Question Number : 77 Question Id : 19088912818 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The biological oxygen demand of whey in mg/kg is approximately

- | | |
|------------|------------|
| (1) 10,000 | (2) 30,000 |
| (3) 15,000 | (4) 40,000 |

Options :

19088951165. 1

19088951166. 2

19088951167. 3

19088951168. 4

Question Number : 78 Question Id : 19088912819 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Emulsions with Zeta potential greater than absolute value of 25 mV are considered stable.

Statement II : Lower values exhibit lower Van der Waal attraction, which lead to aggregation and instability.

In the 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

Options :

19088951169. 1

19088951170. 2

19088951171. 3

19088951172. 4

Question Number : 79 Question Id : 19088912820 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When the radius of path is one meter with constant g and π value, the maximum rate of revolution of the batch butter churn will be _____.

- | | |
|-------------------------|-------------------------|
| (1) $< 30 / \text{min}$ | (2) $< 20 / \text{min}$ |
| (3) $< 40 / \text{min}$ | (4) $< 10 / \text{min}$ |

Options :

19088951173. 1

19088951174. 2

19088951175. 3

19088951176. 4

Question Number : 80 Question Id : 19088912821 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

19088951177. 1

19088951178. 2

19088951179. 3

19088951180. 4

Question Number : 81 Question Id : 19088912822 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A dried product with density almost equal to instantized or agglomerated powder can be achieved by

(1) fluidized bed drying

(2) foam drying

(3) tray drying

(4) rotary drying

Options :

19088951181. 1

19088951182. 2

19088951183. 3

19088951184. 4

Question Number : 82 Question Id : 19088912823 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A) : A super critical fluid can dissolve compounds that have poor solubility in the gas or liquid state.

Reason (R) : Mass transfer into a super critical fluid is influenced by low pH and high viscosity of the fluid.

In the 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

Options :

19088951185. 1

19088951186. 2

19088951187. 3

19088951188. 4

Question Number : 83 Question Id : 19088912824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not a thixotropic fluid?

- | | |
|-----------------|--------------------------|
| (1) Butter | (2) Aged ice cream mix |
| (3) Set yoghurt | (4) Stabilized egg white |

Options :

19088951189. 1

19088951190. 2

19088951191. 3

19088951192. 4

Question Number : 84 Question Id : 19088912825 Question Type : MCQ Option Shuffling : No

Correct Marks : 4 Wrong Marks : 1

When subjected to shear stress _____ loses strain energy completely.

- | | |
|-------------------------------|-------------------------|
| (1) Viscoelastic fluid | (2) Newtonian fluid |
| (3) Time-dependent flow fluid | (4) Quasi-viscous fluid |

Options :

19088951193. 1

19088951194. 2

19088951195. 3

19088951196. 4

Question Number : 85 Question Id : 19088912826 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Processing of glass containers, flexible packages etc. above the nominal pressure of steam or water in a retort is known as

- | | |
|------------------------------|----------------------------------|
| (1) Ultrapressure processing | (2) Overpressure processing |
| (3) Superpressure processing | (4) Enhanced pressure processing |

Options :

19088951197. 1

19088951198. 2

19088951199. 3

19088951200. 4

Question Number : 86 Question Id : 19088912827 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The persistance of foul or unpleasant taste in the mouth is known as

- | | |
|--------------|----------------|
| (1) Anosmia | (2) Anogensia |
| (3) Cacosmia | (4) Cacogensia |

Options :

19088951201. 1

19088951202. 2

19088951203. 3

19088951204. 4

Question Number : 87 Question Id : 19088912828 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Electrical conductivity of milk is contributed by

(1) Chlorides

(2) Proteins

(3) Fats

(4) Lactose

Options :

19088951205. 1

19088951206. 2

19088951207. 3

19088951208. 4

Question Number : 88 Question Id : 19088912829 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The change in temperature required to give one log change in the bacterial count is defined as

(1) D-value

(2) Z-value

(3) Q-10 value

(4) F-value

Options :

19088951209. 1

19088951210. 2

19088951211. 3

19088951212. 4

Question Number : 89 Question Id : 19088912830 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following processes refers to 'Complete sealing of a can'?

- | | |
|---------------|--------------------|
| (1) Clinching | (2) Exhausting |
| (3) Flanging | (4) Double seaming |

Options :

19088951213. 1

19088951214. 2

19088951215. 3

19088951216. 4

Question Number : 90 Question Id : 19088912831 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

_____ is used to sterilize flexible multilayered laminate used to package milk.

- | | |
|-----------------------|-------------------|
| (1) Hydrogen peroxide | (2) Chlorine |
| (3) Hot water | (4) UV radiations |

Options :

19088951217. 1

19088951218. 2

19088951219. 3

19088951220. 4

Question Number : 91 Question Id : 19088912832 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
Organisms	Water activity
(A) Most spoilage bacteria	(I) 0.75
(B) Most spoilage molds	(II) 0.61
(C) Halophilic bacteria	(III) 0.80
(D) Osmophilic yeasts	(IV) 0.90

Choose the correct answer from the options given below :

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

Options :

- 19088951221. 1
- 19088951222. 2
- 19088951223. 3
- 19088951224. 4

Question Number : 92 Question Id : 19088912833 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the most suitable material for lining of tin cans for packaging dairy products?

- (1) Epoxy amine
- (2) Epoxy phenol
- (3) Oleoresins
- (4) Vinyl

Options :

- 19088951225. 1
- 19088951226. 2
- 19088951227. 3
- 19088951228. 4

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following has the lowest oxygen transmission rate?

- | | |
|----------|-----------|
| (1) EVOH | (2) LDPE |
| (3) HDPE | (4) LLDPE |

Options :

19088951229. 1

19088951230. 2

19088951231. 3

19088951232. 4

Question Number : 94 Question Id : 19088912835 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following laminates is the most suitable for vacuum packaging of cheese?

- | | |
|------------------------------|----------------|
| (1) LDPE/LDPE | (2) LDPE/HDPE |
| (3) LDPE/Aluminium foil/HDPE | (4) Nylon/LDPE |

Options :

19088951233. 1

19088951234. 2

19088951235. 3

19088951236. 4

Question Number : 95 Question Id : 19088912836 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The material to form a stretch blow molded container must be processed at just above the _____, for best results.

- | | |
|----------------------------------|------------------------------|
| (1) Crystallization temperature | (2) Molding temperature |
| (3) Glass transition temperature | (4) Conditioning temperature |

Options :

19088951237. 1

19088951238. 2

19088951239. 3

19088951240. 4

Question Number : 96 Question Id : 19088912837 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following food stimulants is the best while testing migration into traditional dairy products?

- | | |
|-----------------------------------|-------------------------------|
| (1) Distilled water and n-heptane | (2) Acetic acid and n-heptane |
| (3) Ethanol and n-heptane | (4) Formalin and n-heptane |

Options :

19088951241. 1

19088951242. 2

19088951243. 3

19088951244. 4

Question Number : 97 Question Id : 19088912838 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I

- (A) Newtonian fluid
- (B) Non-Newtonian fluid
- (C) Plastic fluid
- (D) Pseudoplastic fluid

List II

- (I) Decreasing viscosity at increasing shear rate
- (II) Constant viscosity dependent on temperature, but independent of shear rate
- (III) Single viscosity at specified temperature
- (IV) Exhibits yield stress

Choose the correct answer from the options given below :

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

Options :

19088951245. 1

19088951246. 2

19088951247. 3

19088951248. 4

Question Number : 98 Question Id : 19088912839 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

End effects are the common source of errors in _____ type of viscometers.

- (1) Orifice
- (2) Extrusion
- (3) Rotational
- (4) Capillary

Options :

19088951249. 1

19088951250. 2

19088951251. 3

19088951252. 4

Question Number : 99 Question Id : 19088912840 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ability of a material to retain its own weight is called

- | | |
|----------------|----------------|
| (1) Plasticity | (2) Elasticity |
| (3) Modulus | (4) Solidity |

Options :

19088951253. 1

19088951254. 2

19088951255. 3

19088951256. 4

Question Number : 100 Question Id : 19088912841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The method that is used to measure the extensional viscosity of dairy foods is _____.

- | | |
|-----------------------|-------------------------------|
| (1) Temperature sweep | (2) Lubricated squeezing flow |
| (3) Amplitude sweep | (4) Steady shear viscosity |

Options :

19088951257. 1

19088951258. 2

19088951259. 3

19088951260. 4

Question Number : 101 Question Id : 19088912842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Reverse osmosis	(I) < 1 BAR
(B) Ultrafiltration	(II) 1–10 BAR
(C) Nanofiltration	(III) 30–60 BAR
(D) Microfiltration	(IV) 20–40 BAR

Choose the correct answer from the options given below :

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

Options :

19088951261. 1

19088951262. 2

19088951263. 3

19088951264. 4

Question Number : 102 Question Id : 19088912843 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The driving force for dialysis is

- | | |
|------------------------------|------------------------|
| (1) Pressure difference | (2) Chemical potential |
| (3) Concentration difference | (4) Voltage / Current |

Options :

19088951265. 1

19088951266. 2

19088951267. 3

19088951268. 4

Question Number : 103 Question Id : 19088912844 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A) : The reverse osmosis process is limited in its upper solid levels, being much less than conventional concentration processes for dairy products.

Reason (R) : The flux rate increases with increasing total solids in dairy products.

In the 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

Options :

19088951269. 1

19088951270. 2

19088951271. 3

19088951272. 4

Question Number : 104 Question Id : 19088912845 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The relative hydrophilicity of a membrane can be measured by assessing the _____ which is a measure of surface wettability.

- | | |
|-------------------------|----------------------|
| (1) Conformation | (2) Contact angle |
| (3) Liquid assimilation | (4) Dispersion angle |

Options :

19088951273. 1

19088951274. 2

19088951275. 3

19088951276. 4

Question Number : 105 Question Id : 19088912846 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cellulose membranes foul less compared to other polymeric membranes because of their

- | | |
|--------------------|--------------------|
| (1) Rough surface | (2) Smooth surface |
| (3) Hydrophobicity | (4) Inert nature |

Options :

19088951277. 1

19088951278. 2

19088951279. 3

19088951280. 4

Question Number : 106 Question Id : 19088912847 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A permeate channel spacer is an integral component of the

- | | |
|-------------------------|----------------------------|
| (1) Tubular filter | (2) Plate and frame filter |
| (3) Hollow fibre filter | (4) Spiral wound filter |

Options :

19088951281. 1

19088951282. 2

19088951283. 3

19088951284. 4

Question Number : 107 Question Id : 19088912848 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The force that pushes the permeate through the membrane is

- | | |
|---------------------------|----------------------------|
| (1) Hydraulic pressure | (2) Transmembrane pressure |
| (3) Interstitial pressure | (4) Surface pressure |

Options :

19088951285. 1

19088951286. 2

19088951287. 3

19088951288. 4

**Question Number : 108 Question Id : 19088912849 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is a reported pathogen?

(1) *Bifidobacterium dentium*

(2) *Bifidobacterium coagulans*

(3) *Bifidobacterium longum*

(4) *Bifidobacterium breve*

Options :

19088951289. 1

19088951290. 2

19088951291. 3

19088951292. 4

**Question Number : 109 Question Id : 19088912850 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Acylation	(I) Cleavage of proteins
(B) Hydrolysis	(II) Acyl transfer reaction
(C) Maillard reaction	(III) Modification of charge on proteins
(D) Transglutamination	(IV) Colour degradation

Choose the correct answer from the options given below :

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

Options :

19088951293. 1

19088951294. 2

19088951295. 3

19088951296. 4

Question Number : 110 Question Id : 19088912851 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

_____ is essential for the synthesis of lactose in milk.

- | | |
|----------------------------|---------------------------|
| (1) β -Lactoglobulin | (2) α -Lactalbumin |
| (3) Immunoglobulins | (4) β -Casein |

Options :

19088951297. 1

19088951298. 2

19088951299. 3

19088951300. 4

Question Number : 111 Question Id : 19088912852 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Which among the following is NOT implicated in cow milk allergy?

- | | |
|---------------------------|----------------------------|
| (1) Casein | (2) Lactose |
| (3) α -Lactalbumin | (4) β -Lactoglobulin |

Options :

19088951301. 1

19088951302. 2

19088951303. 3

19088951304. 4

Question Number : 112 Question Id : 19088912853 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The variation in A1 and A2 milk exists in the amino acid difference at position 67, which is _____.

- | | |
|--|--|
| (1) histidine in A1 and tyrosine in A2 | (2) tyrosine in A1 and histidine in A2 |
| (3) proline in A1 and histidine in A2 | (4) histidine in A1 and proline in A2 |

Options :

19088951305. 1

19088951306. 2

19088951307. 3

19088951308. 4

Question Number : 113 Question Id : 19088912854 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Metabolic products of probiotics or any released molecule capable of conferring beneficial effects are termed as

- | | |
|----------------|-----------------|
| (1) Prebiotics | (2) Postbiotics |
| (3) Synbiotics | (4) Antibiotics |

19088951309. 1

19088951310. 2

19088951311. 3

19088951312. 4

**Question Number : 114 Question Id : 19088912855 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The active ingredient from milk protein that is useful in treating phenylketonuria in children is

- | | |
|----------------------|----------------------------|
| (1) α -Casein | (2) β -Lactoglobulin |
| (3) GMP | (4) α -Lactalbumin |

Options :

19088951313. 1

19088951314. 2

19088951315. 3

19088951316. 4

**Question Number : 115 Question Id : 19088912856 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The enzyme azoreductase is responsible for _____.

- | | |
|-------------------------------|------------------------------|
| (1) Initiation of cancer | (2) Suppression of cancer |
| (3) Suppression of thrombosis | (4) Initiation of thrombosis |

Options :

19088951317. 1

19088951318. 2

19088951319. 3

19088951320. 4

Question Number : 116 Question Id : 19088912857 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The peptide that is responsible for satiety and antiobesity is

- | | |
|-----------------------|-----------------------------|
| (1) Lactoferricin | (2) ACE inhibitory peptide |
| (3) Glycomacropeptide | (4) Caseino phospho peptide |

Options :

19088951321. 1

19088951322. 2

19088951323. 3

19088951324. 4

Question Number : 117 Question Id : 19088912858 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

- | List I | List II |
|-----------------------------|-----------------------|
| (A) Casomorphin | (I) Opioid antagonist |
| (B) Casoxin | (II) Mineral binding |
| (C) Caseino phospho peptide | (III) Ace inhibitory |
| (D) Casokinin | (IV) Opioid agonist |

Choose the correct answer from the options given below :

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

Options :

19088951325. 1

19088951326. 2

19088951328. 4

Question Number : 118 Question Id : 19088912859 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The enzyme used for the production of high fructose corn syrup is _____.

- | | |
|----------------------|--------------------------|
| (1) alpha amylase | (2) glucose isomerase |
| (3) β -amylase | (4) glucoamylase |

Options :

19088951329. 1

19088951330. 2

19088951331. 3

19088951332. 4

Question Number : 119 Question Id : 19088912860 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The force at the interface of an emulsion that attempts to reduce the interfacial area and acts perpendicular to the interface is called

- | | |
|-------------------------------|-----------------------------|
| (1) Interstitial pressure | (2) Interfacial pressure |
| (3) Perpendicular pressure | (4) Laplace pressure |

Options :

19088951333. 1

19088951334. 2

19088951335. 3

19088951336. 4

Question Number : 120 Question Id : 19088912861 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

_____ is an example of a foam-based dairy product.

(1) Whipped cream

(2) Yoghurt

(3) Soft cheeses

(4) Sterilized milks

Options :

19088951337. 1

19088951338. 2

19088951339. 3

19088951340. 4