

National Testing Agency

Question Paper Name :	Dairy Microbiology 23rd Sep 2020 Shift 2 Set 2
Subject Name :	Dairy Microbiology
Creation Date :	2020-09-23 19:33:40
Duration :	120
Total Marks :	480
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Dairy Microbiology

Group Number :	1
Group Id :	71087038
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 :	710870112
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870112
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108704501 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

Options :

71087018001. 1
71087018002. 2
71087018003. 3
71087018004. 4

Question Number : 2 Question Id : 7108704502 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

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

- 1. Only A and B
- 2. Only B and C
- 3. Only C and D
- 4. Only A and C

Options :

- 71087018005. 1
- 71087018006. 2
- 71087018007. 3
- 71087018008. 4

Question Number : 3 Question Id : 7108704503 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

Options :

- 71087018009. 1

71087018010. 2

71087018011. 3

71087018012. 4

Question Number : 4 Question Id : 7108704504 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

Options :

71087018013. 1

71087018014. 2

71087018015. 3

71087018016. 4

Question Number : 5 Question Id : 7108704505 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement A: MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

Statement B: Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

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

1. Both Statement A and Statement B are correct
2. Both Statement A and Statement B are incorrect
3. Statement A is correct but Statement B is incorrect
4. Statement A is incorrect but Statement B is correct

Options :

71087018017. 1

71087018018. 2

71087018019. 3

71087018020. 4

Question Number : 6 Question Id : 7108704506 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

Options :

- 71087018021. 1
- 71087018022. 2
- 71087018023. 3
- 71087018024. 4

Question Number : 7 Question Id : 7108704507 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

Options :

- 71087018025. 1
- 71087018026. 2
- 71087018027. 3
- 71087018028. 4

Question Number : 8 Question Id : 7108704508 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Uttar Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

Options :

- 71087018029. 1
- 71087018030. 2
- 71087018031. 3
- 71087018032. 4

Question Number : 9 Question Id : 7108704509 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Which type of N-fertilizer is suitable for water-logged soils?

- 1. Zinc Phosphate
- 2. Ammonium Sulphate
- 3. Calcium
- 4. Potassium Nitrate

Options :

- 71087018033. 1
- 71087018034. 2
- 71087018035. 3
- 71087018036. 4

Question Number : 10 Question Id : 7108704510 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

- 1. Bauxite deposits
- 2. Manganese deposits
- 3. Copper deposits
- 4. High-grade haematite deposits

Options :

- 71087018037. 1

71087018038. 2

71087018039. 3

71087018040. 4

Question Number : 11 Question Id : 7108704511 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

Options :

71087018041. 1

71087018042. 2

71087018043. 3

71087018044. 4

Question Number : 12 Question Id : 7108704512 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

Options :

- 71087018045. 1
- 71087018046. 2
- 71087018047. 3
- 71087018048. 4

Question Number : 13 Question Id : 7108704513 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries was the partner country of 34th Surajkund International Crafts Fair held in Haryana?

- 1. China
- 2. Nepal
- 3. Bhutan
- 4. Uzbekistan

Options :

- 71087018049. 1
- 71087018050. 2
- 71087018051. 3
- 71087018052. 4

Question Number : 14 Question Id : 7108704514 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

- 1. University of Delhi
- 2. University of Kolkata
- 3. University of Mumbai
- 4. University of Hyderabad

Options :

- 71087018053. 1
- 71087018054. 2
- 71087018055. 3
- 71087018056. 4

Question Number : 15 Question Id : 7108704515 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

Options :

- 71087018057. 1
- 71087018058. 2
- 71087018059. 3
- 71087018060. 4

Question Number : 16 Question Id : 7108704516 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals

Options :

- 71087018061. 1
- 71087018062. 2
- 71087018063. 3
- 71087018064. 4

Question Number : 17 Question Id : 7108704517 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

Options :

- 71087018065. 1
- 71087018066. 2
- 71087018067. 3
- 71087018068. 4

Question Number : 18 Question Id : 7108704518 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

Options :

- 71087018069. 1
- 71087018070. 2
- 71087018071. 3
- 71087018072. 4

Question Number : 19 Question Id : 7108704519 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

Options :

- 71087018073. 1
- 71087018074. 2
- 71087018075. 3
- 71087018076. 4

Question Number : 20 Question Id : 7108704520 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

Options :

- 71087018077. 1

71087018078. 2
 71087018079. 3
 71087018080. 4

Part B Core Dairy Science Dairy Technology and Food Technology

Section Id :	710870113
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870113
Question Shuffling Allowed :	Yes

**Question Number : 21 Question Id : 7108704521 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1**

The most variable constituent in milk is

1. Chloride
2. Protein
3. Lactose
4. Fat

Options :

71087018081. 1
 71087018082. 2

71087018083. 3

71087018084. 4

Question Number : 22 Question Id : 7108704522 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A1 and A2 types of milk refer to which one of the following casein fractions?

1. α s1- casein
2. α s2- casein
3. κ -casein
4. β -casein

Options :

71087018085. 1

71087018086. 2

71087018087. 3

71087018088. 4

Question Number : 23 Question Id : 7108704523 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Milk serum is free from which of the following constituents?

- A. Fat
- B. Caseins
- C. Whey proteins
- D. Lactose

Choose the correct answer from the options given below:

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

Options :

- 71087018089. 1
- 71087018090. 2
- 71087018091. 3
- 71087018092. 4

Question Number : 24 Question Id : 7108704524 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following unsaturated fatty acids is present at the highest level in milk fat?

- 1. Linoleic acid
- 2. Linolenic acid
- 3. Oleic acid
- 4. Arachidonic acid

Options :

- 71087018093. 1
- 71087018094. 2
- 71087018095. 3
- 71087018096. 4

Question Number : 25 Question Id : 7108704525 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The molecular formula of cholesterol is :

1. $C_{27}H_{45}OH$
2. $C_{30}H_{50}OH$
3. $C_{28}H_{56}OH$
4. $C_{27}H_{48}OH$

Options :

71087018097. 1
71087018098. 2
71087018099. 3
71087018100. 4

Question Number : 26 Question Id : 7108704526 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following forms of lactose is/are mainly present in dried milk?

- A. α -lactose hydrate
- B. β -lactose anhydride
- C. Lactose glass
- D. β -lactose hydrate

Choose the correct answer from the options given below:

1. A only
2. B only
3. C only
4. A and D both

Options :

- 71087018101. 1
- 71087018102. 2
- 71087018103. 3
- 71087018104. 4

Question Number : 27 Question Id : 7108704527 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Rennet acts at 105-106 peptide bond of κ -casein. What are the amino acids at these positions?

- 1. Methionine & Phenylalanine
- 2. Alanine & Methionine
- 3. Phenylalanine & Methionine
- 4. Methionine & Glycine

Options :

- 71087018105. 1
- 71087018106. 2
- 71087018107. 3
- 71087018108. 4

Question Number : 28 Question Id : 7108704528 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following changes occur in cheddar cheese during ripening?

- A. Proteolysis
- B. Lipolysis
- C. Fermentation

Choose the correct answer from the options given below:

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

Options :

- 71087018109. 1
- 71087018110. 2
- 71087018111. 3
- 71087018112. 4

Question Number : 29 Question Id : 7108704529 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the role of stabilizers in ice-cream?

- 1. Reduction of size of ice crystals
- 2. Reduction of size of lactose crystals
- 3. Increase overrun
- 4. Improve flavour

Options :

- 71087018113. 1
- 71087018114. 2
- 71087018115. 3
- 71087018116. 4

Question Number : 30 Question Id : 7108704530 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

ISO means

1. International Standards Organization
2. Indian Standards Organization
3. International Organizations for Standardization
4. International Specifications Organisation

Options :

- 71087018117. 1
- 71087018118. 2
- 71087018119. 3
- 71087018120. 4

Question Number : 31 Question Id : 7108704531 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is an agent, which is present in gram-positive bacteria and is also called pyrogenic?

1. Lipid-A
2. Teichoic acid
3. Peptidoglycan
4. Integrated membrane protein

Options :

- 71087018121. 1
- 71087018122. 2
- 71087018123. 3
- 71087018124. 4

Question Number : 32 Question Id : 7108704532 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The common activity test for starter cultures are:

- A. Horrell-Elliker test
- B. Creatine test
- C. Rennet coagulation time test
- D. Resazurin reduction time test
- E. Titratable acidity

Choose the correct answer from the options given below:

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

Options :

71087018125. 1

71087018126. 2

71087018127. 3

71087018128. 4

Question Number : 33 Question Id : 7108704533 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Type strain is used for referring to

- 1. Species
- 2. Genus
- 3. Family
- 4. Division

Options :

71087018129. 1

71087018130. 2

71087018131. 3

71087018132. 4

Question Number : 34 Question Id : 7108704534 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The term 'very little animalcules' was coined by

1. Louis Pasteur
2. Robert Hooke
3. Anton van Leeuwenhoek
4. Robert Koch

Options :

71087018133. 1

71087018134. 2

71087018135. 3

71087018136. 4

Question Number : 35 Question Id : 7108704535 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Transforming principle was given by

1. Watson and Crick
2. Holley, Nirenberg and Khorana
3. F. Griffith
4. Hershey and Chase

Options :

71087018137. 1

71087018138. 2

71087018139. 3

71087018140. 4

Question Number : 36 Question Id : 7108704536 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bacterial inactivation by Pulse Electric Field (PEF) technology is due to

1. Pore formation in cell membrane
2. DNA damage
3. Protein denaturation
4. Cellular oxidation

Options :

71087018141. 1
71087018142. 2
71087018143. 3
71087018144. 4

Question Number : 37 Question Id : 7108704537 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a lantibiotic bacteriocin?

1. Pediocin
2. Helveticus
3. Gassericin
4. Nisin

Options :

71087018145. 1
71087018146. 2
71087018147. 3
71087018148. 4

Question Number : 38 Question Id : 7108704538 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The outermost layer in certain bacterial cell, also known as 'K', is

1. Flagella
2. Capsule
3. Cell wall
4. Pili

Options :

71087018149. 1
71087018150. 2
71087018151. 3
71087018152. 4

Question Number : 39 Question Id : 7108704539 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is the causative agent for Q Fever?

1. *Salmonella*
2. *E. coli*
3. *Listeria*
4. *Coxiella burnetii*

Options :

71087018153. 1
71087018154. 2
71087018155. 3
71087018156. 4

Question Number : 40 Question Id : 7108704540 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a systematic approach to the identification, evaluation and control of food safety hazards?

1. Microbial analysis
2. FSSAI
3. HACCP
4. PFA

Options :

71087018157. 1
71087018158. 2
71087018159. 3
71087018160. 4

Question Number : 41 Question Id : 7108704541 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What will be the yield of butter (80% fat) from 850 kg cream having 40% fat, assuming the fat losses to be 0.6% of total fat?

1. 425 kg
2. 270.5 kg
3. 422.5 kg
4. 272 kg

Options :

71087018161. 1
71087018162. 2
71087018163. 3
71087018164. 4

Question Number : 42 Question Id : 7108704542 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Ageing time of ice cream containing sodium alginate is about 3 hours

Statement II: Ageing time of ice cream containing gelatin is about 10 hours

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 and Statement II is incorrect
4. Statement I is incorrect and Statement II is correct

Options :

71087018165. 1

71087018166. 2

71087018167. 3

71087018168. 4

Question Number : 43 Question Id : 7108704543 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Ghee prepared using ripened cream has an intense nutty flavour

Statement II: Ghee prepared using pre-stratified butter has an intense nutty flavour

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 and Statement II is incorrect
4. Statement I is incorrect and Statement II is correct

Options :

71087018169. 1

71087018170. 2

71087018171. 3

71087018172. 4

Question Number : 44 Question Id : 7108704544 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: High-fat content and higher homogenizing pressure alter the surface layer of fat globules. The consequence is - heat stability decreases

Statement II: High-fat content and higher homogenizing pressure alter the surface layer of fat globules. The consequence is – rheological properties of fermented milk products are different from those of unhomogenized milk

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 and Statement II is incorrect
4. Statement I is incorrect and Statement II is correct

Options :

71087018173. 1

71087018174. 2

71087018175. 3

71087018176. 4

Question Number : 45 Question Id : 7108704545 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The process to increase volume by whipping air into the ice cream mix is called

1. Homogenization
2. Ageing
3. Over run
4. Hardening

Options :

- 71087018177. 1
- 71087018178. 2
- 71087018179. 3
- 71087018180. 4

Question Number : 46 Question Id : 7108704546 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The marker enzyme for cream pasteurization is

- 1. Plasmin
- 2. Phosphatase
- 3. Catalase
- 4. Peroxidase

Options :

- 71087018181. 1
- 71087018182. 2
- 71087018183. 3
- 71087018184. 4

Question Number : 47 Question Id : 7108704547 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The second stage of homogenization is done to

- 1. Reduce the fat globule size to <2 mm
- 2. Disintegrate the agglomerates of fat globules
- 3. Remove whey
- 4. Increase the temperature of milk

Options :

- 71087018185. 1
- 71087018186. 2

71087018187. 3

71087018188. 4

Question Number : 48 Question Id : 7108704548 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Milk powders are classified into low-, medium- and high- heat treated powders, on the basis of

1. Extent of insolubility
2. Reconstitutability
3. Whey protein nitrogen index
4. Feathering index

Options :

71087018189. 1

71087018190. 2

71087018191. 3

71087018192. 4

Question Number : 49 Question Id : 7108704549 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is true with respect to the major causes of deterioration of whole milk powder?

1. Oxidation of fat, Maillard browning and lactose crystallization
2. Bacterial growth, hydrolysis of fat and developed acidity
3. Caramelization, carbon dioxide production and lactic acid production
4. Denaturation of proteins, conversion of lactose crystals to amorphous form and fat crystallization

Options :

71087018193. 1

71087018194. 2

71087018195. 3

71087018196. 4

Question Number : 50 Question Id : 7108704550 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following statements is NOT true with respect to the physico-chemical changes occurring in khoa during preparation?

1. Colour change, homogenization of milk fat and heat coagulation of proteins
2. Free fat formation, super saturation of lactose and partial precipitation of milk salts
3. Reduction in moisture content, increase in solid contents and increase in acidity
4. Increase in bacterial count, increase in pH and decrease in acidity

Options :

71087018197. 1

71087018198. 2

71087018199. 3

71087018200. 4

Question Number : 51 Question Id : 7108704551 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Elastic	I. Water
B. Viscous	II. Dough
C. Plastic	III. Steel
D. Generalized Maxwell body	IV. Butter

Choose the correct answer from the options given below:

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

Options :

71087018201. 1

71087018202. 2

71087018203. 3

71087018204. 4

Question Number : 52 Question Id : 7108704552 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The advantages of falling film evaporators are

- A. Less residence time
- B. More overall heat transfer coefficient
- C. Less fouling problem
- D. Low vacuum is possible

Choose the correct answer from the options given below

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

Options :

- 71087018205. 1
- 71087018206. 2
- 71087018207. 3
- 71087018208. 4

Question Number : 53 Question Id : 7108704553 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following statement is NOT correct?

- 1. Mechanical vibrators enhance efficiency of FBD
- 2. Doctors blades are used in FBD
- 3. Mechanical sweepers are used in spray dryers
- 4. Space between the rollers determines thickness of feed layer

Options :

- 71087018209. 1
- 71087018210. 2
- 71087018211. 3
- 71087018212. 4

Question Number : 54 Question Id : 7108704554 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Instruments that measure the process variables and put out a corresponding proportional signal are

1. Controllers
2. Transmitters
3. Conveyors
4. Regulators

Options :

- 71087018213. 1
- 71087018214. 2
- 71087018215. 3
- 71087018216. 4

Question Number : 55 Question Id : 7108704555 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following has least value of thermal conductivity?

1. Air
2. Water
3. Copper
4. Glass

Options :

- 71087018217. 1
- 71087018218. 2
- 71087018219. 3
- 71087018220. 4

Question Number : 56 Question Id : 7108704556 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A vacuum pump that does NOT use moving parts is

1. Steam trap
2. Condenser
3. Jet ejector
4. Nozzle

Options :

71087018221. 1
71087018222. 2
71087018223. 3
71087018224. 4

Question Number : 57 Question Id : 7108704557 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What is the approximate capacity of a domestic window type air conditioner?

1. 0.1 TR
2. 1.0 TR
3. 100 TR
4. 10 TR

Options :

71087018225. 1
71087018226. 2
71087018227. 3
71087018228. 4

Question Number : 58 Question Id : 7108704558 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Absolute pressure means fluid pressure at

- A. Absolute zero
- B. Perfect vacuum
- C. Gauge pressure
- D. Atmospheric pressure

Choose the correct answer from the options given below:

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

Options :

- 71087018229. 1
- 71087018230. 2
- 71087018231. 3
- 71087018232. 4

Question Number : 59 Question Id : 7108704559 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Torr is a unit of measurement of

- 1. Vacuum
- 2. Positive pressure
- 3. Humidity
- 4. Centrifugal force

Options :

- 71087018233. 1

71087018234. 2

71087018235. 3

71087018236. 4

Question Number : 60 Question Id : 7108704560 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Controller is a device that continuously compares the measured value with

1. Reference value
2. Corrected signal
3. Differential value
4. Absolute value

Options :

71087018237. 1

71087018238. 2

71087018239. 3

71087018240. 4

Question Number : 61 Question Id : 7108704561 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following anti-nutritional factors suppresses the function of the thyroid gland?

1. Goitrogens
2. Saponins
3. Protease –inhibitors
4. Cyanogenic glycosides

Options :

71087018241. 1

71087018242. 2

71087018243. 3

71087018244. 4

Question Number : 62 Question Id : 7108704562 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The flavour of clove used in food is due to

1. Lycopene
2. Capsacin
3. Eugenol
4. Garcinol

Options :

71087018245. 1

71087018246. 2

71087018247. 3

71087018248. 4

Question Number : 63 Question Id : 7108704563 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following combinations of enzymes could be used in enzyme-based oxygen scavengers of packed foods?

1. Glucose oxidase and Catalase
2. Glucose isomerase and Polyphenol oxidase
3. Catalase and Peroxidase
4. Pectin methyl esterase and Glucose isomerase

Options :

71087018249. 1

71087018250. 2

71087018251. 3

71087018252. 4

Question Number : 64 Question Id : 7108704564 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT correct in reference to thermally processed foods?

1. *Clostridium botulinum* spores do not germinate below pH 4.6
2. 12-D concept refers to the process lethality requirement in case of canned foods
3. Flat sour defect in canned food is caused by *Bacillus polymyxa*
4. Microbial inactivation during thermal processing usually follows a logarithmic order

Options :

71087018253. 1

71087018254. 2

71087018255. 3

71087018256. 4

Question Number : 65 Question Id : 7108704565 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Hydrogenation of vegetable oil is used for two purposes:

1. To improve colour, flavor and to reduce melting point
2. To improve oxidative stability and convert liquid oil to plastic /hard fats
3. To remove waxes and saturated triglycerides
4. Neutralization and deodorization of oil

Options :

71087018257. 1

71087018258. 2

71087018259. 3

71087018260. 4

Question Number : 66 Question Id : 7108704566 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Adulteration of ghee with vanaspati can be detected by

1. Beiber test
2. Becchi test
3. Baudouin test
4. Halphen test

Options :

- 71087018261. 1
- 71087018262. 2
- 71087018263. 3
- 71087018264. 4

Question Number : 67 Question Id : 7108704567 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Microbial rennet is NOT produced by

1. *Endothia parasitica*
2. *Mucor miehei*
3. *Aspergillus niger*
4. *Bacillus polymyxa*

Options :

- 71087018265. 1
- 71087018266. 2
- 71087018267. 3
- 71087018268. 4

Question Number : 68 Question Id : 7108704568 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is the correct sequence of operation during canning of food products?

- A. Syruping or Brining
- B. Double seaming
- C. Exhausting
- D. Thermal processing
- E. Clinching

Choose the correct answer from the options given below:

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

Options :

71087018269. 1

71087018270. 2

71087018271. 3

71087018272. 4

Question Number : 69 Question Id : 7108704569 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following leavening agents is essentially used for producing crackers (salt biscuits)?

- A. Sodium bicarbonate
- B. Sodium carbonate
- C. Yeast
- D. Ammonium bicarbonate

Choose the correct answer from the options given below:

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

Options :

- 71087018273. 1
- 71087018274. 2
- 71087018275. 3
- 71087018276. 4

Question Number : 70 Question Id : 7108704570 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is MOST suitable hydrocolloid for reduced oil absorption in fried food?

- 1. Hydroxy propoxy methyl cellulose
- 2. Carboxy methyl Cellulose
- 3. Starch
- 4. Microcrystalline cellulose

Options :

- 71087018277. 1
- 71087018278. 2
- 71087018279. 3

71087018280.4

Part C Dairy Microbiology

Section Id :	710870114
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870114
Question Shuffling Allowed :	Yes

**Question Number : 71 Question Id : 7108704571 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1**

The common starter cultures used for making *Dahi* are

- A. *Bacillus cereus*
- B. *Staphylococcus aureus*
- C. *Lactococcus lactis* subsp. *lactis*
- D. *Lactococcus lactis* subsp. *cremoris*
- E. *Leuconostoc* spp.

Choose the correct answer from the options given below:

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

Options :

- 71087018281. 1
- 71087018282. 2
- 71087018283. 3
- 71087018284. 4

Question Number : 72 Question Id : 7108704572 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The malt grain mainly used in the preparation of beer

- 1. Corn
- 2. Barley
- 3. Oats
- 4. Maize

Options :

- 71087018285. 1
- 71087018286. 2

71087018287. 3

71087018288. 4

Question Number : 73 Question Id : 7108704573 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. <i>Bacillus</i> spp.	I. BPA media
B. <i>Salmonella</i> spp.	II. MYPA media
C. <i>Listeria</i> spp.	III. XLD agar media
D. <i>Staphylococcus aureus</i>	IV. PALCAM agar

Choose the correct answer from the options given below:

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

Options :

71087018289. 1

71087018290. 2

71087018291. 3

71087018292. 4

Question Number : 74 Question Id : 7108704574 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the bacterial growth curve, the maximum increase in bacterial cell number takes place in which phase?

1. Lag phase
2. Log phase
3. Stationary phase
4. Death phase

Options :

71087018293. 1
71087018294. 2
71087018295. 3
71087018296. 4

Question Number : 75 Question Id : 7108704575 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

APHA provides a compendium of recognized methodology for:

1. Standard methods for the examination of dairy products
2. IDF standards
3. ISO standards
4. FSSR

Options :

71087018297. 1
71087018298. 2
71087018299. 3
71087018300. 4

Question Number : 76 Question Id : 7108704576 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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:

E. coli is a motile bacterium

Reason R:

The motility is due to the presence of flagella

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 a correct
4. **A** is not correct but **R** is correct

Options :

- 71087018301. 1
- 71087018302. 2
- 71087018303. 3
- 71087018304. 4

Question Number : 77 Question Id : 7108704577 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The most common laboratory technique used to visualize bacterial motility is:

1. Impregnation method
2. Hanging drop method
3. Soft agar method
4. Wet method

Options :

- 71087018305. 1
- 71087018306. 2
- 71087018307. 3
- 71087018308. 4

Question Number : 78 Question Id : 7108704578 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The molds employed to produce mold-ripened cheese are

- A. *Aspergillus oryzae*
- B. *Penicillium roqueforti*
- C. *Candida lypolytica*
- D. *Cladosporium herbarum*
- E. *Penicillium camemberti*

Choose the correct answer from the options given below:

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

Options :

- 71087018309. 1
- 71087018310. 2
- 71087018311. 3
- 71087018312. 4

Question Number : 79 Question Id : 7108704579 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Genetic code is related to

1. Amino acid
2. Fatty acids
3. Monosaccharides
4. DNA polymerase

Options :

71087018313. 1
71087018314. 2
71087018315. 3
71087018316. 4

Question Number : 80 Question Id : 7108704580 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The indicator organism for pasteurization of milk is:

1. *Mycobacterium tuberculosis*
2. *Coxiella burnetii*
3. *Enterococcus faecalis*
4. *Bacillus stearothermophilus*

Options :

71087018317. 1
71087018318. 2
71087018319. 3
71087018320. 4

Question Number : 81 Question Id : 7108704581 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The time of heating at a temperature to cause 90% reduction in the count of viable spores is denoted by F value.

Statement II: The Z value is the time in minutes required to destroy the organism in a specified medium at 121.1°C.

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 true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

71087018321. 1

71087018322. 2

71087018323. 3

71087018324. 4

Question Number : 82 Question Id : 7108704582 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify correct statements from the following

- A. The genetic material in viruses can be either DNA or RNA
- B. mRNA is formed from DNA by a process called replication
- C. DNA is double helical in structure
- D. PCR is used to visualize bacterial cell
- E. Plasmids are extrachromosomal DNA

Choose the correct answer from the options given below:

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

Options :

- 71087018325. 1
- 71087018326. 2
- 71087018327. 3
- 71087018328. 4

Question Number : 83 Question Id : 7108704583 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pasteurization for milk was adopted by

- 1. Louis pasteur
- 2. Soxhlet
- 3. Nicolas Appert
- 4. Gail Borden

Options :

- 71087018329. 1
- 71087018330. 2
- 71087018331. 3

71087018332. 4

Question Number : 84 Question Id : 7108704584 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The organisms which can use reduced inorganic compounds as an electron source are known as

1. Chemotrophs
2. Organotrophs
3. Lithotrophs
4. Phototrophs

Options :

71087018333. 1

71087018334. 2

71087018335. 3

71087018336. 4

Question Number : 85 Question Id : 7108704585 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bergey's Manual is also known as

1. Bergey's Manual of Informative Bacteriology
2. Bergey's Manual of Descriptive Bacteriology
3. Bergey's Manual of Systematic Bacteriology
4. Bergey's Manual of Bacterial Taxonomy

Options :

71087018337. 1

71087018338. 2

71087018339. 3

71087018340. 4

Question Number : 86 Question Id : 7108704586 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following acts as mordant in Gram's staining?

1. Crystal violet
2. Safranin
3. Gram's Iodine
4. Methylene blue

Options :

71087018341. 1
71087018342. 2
71087018343. 3
71087018344. 4

Question Number : 87 Question Id : 7108704587 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Major flavouring compound of yoghurt is:

1. Diacetyl
2. Acetyldehyde
3. Methyl sulphide
4. Methanethiol

Options :

71087018345. 1
71087018346. 2
71087018347. 3
71087018348. 4

Question Number : 88 Question Id : 7108704588 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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: Intuitive method of bacterial classification calculates the percent similarity of one strain to every other strain

Reason R: Microbiologists familiar with properties of an organism decide that the organism represents one or more species or genera

In light of the above statements, choose the **most appropriate** 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 not false
4. **A** is not false but **R** is true

Options :

71087018349. 1

71087018350. 2

71087018351. 3

71087018352. 4

Question Number : 89 Question Id : 7108704589 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Endosymbiosis of prokaryotic bacteria into primitive animal eukaryotic cell represents the organelle:

1. Mitochondria
2. Chloroplast
3. Spindles
4. Thallakoids

Options :

71087018353. 1
71087018354. 2
71087018355. 3
71087018356. 4

Question Number : 90 Question Id : 7108704590 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following gives a negative charge to Gram-positive bacterial cell wall?

1. Lipid A
2. Teichoic acid
3. Lipopolysaccharides
4. O side chains

Options :

71087018357. 1
71087018358. 2
71087018359. 3
71087018360. 4

Question Number : 91 Question Id : 7108704591 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: The packaging material used for aseptic milk is sterilized by UV light

Reason R: Ultraviolet rays have a high penetration power

In light of the above statements, choose the **most appropriate** 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 not false
4. **A** is not false but **R** is true

Options :

71087018361. 1

71087018362. 2

71087018363. 3

71087018364. 4

Question Number : 92 Question Id : 7108704592 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The polymerase chain reaction technique was invented by Watson and Crick.

Statement II: Fungi are referred to as lower protists

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 71087018365. 1
- 71087018366. 2
- 71087018367. 3
- 71087018368. 4

Question Number : 93 Question Id : 7108704593 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is pleomorphic?

1. *Bacillus subtilis*
2. *Arthrobacter*
3. *Streptococcus*
4. *Pediococcus*

Options :

- 71087018369. 1
- 71087018370. 2
- 71087018371. 3

71087018372. 4

Question Number : 94 Question Id : 7108704594 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Growth of a bacterial population follows a geometric progression

Statement II: The newly dividing cells are more resistant than the older cells

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

71087018373. 1

71087018374. 2

71087018375. 3

71087018376. 4

Question Number : 95 Question Id : 7108704595 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

During which of the following bacterial growth phases, primary metabolites are produced?

1. Lag
2. Idiophase
3. Trophophase
4. Death

Options :

71087018377. 1
71087018378. 2
71087018379. 3
71087018380. 4

Question Number : 96 Question Id : 7108704596 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

'O' and 'H' serotypes of *E. coli* O157:H7 refers to

- A. Somatic
- B. Flagella
- C. Capsule
- D. Peptidoglycan
- E. Teichoic acid

Choose the correct answer from the options given below:

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

Options :

71087018381. 1
71087018382. 2
71087018383. 3

71087018384. 4

Question Number : 97 Question Id : 7108704597 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Quality control is a defect finding process

Statement II: Quality assurance is a defect preventing process

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

1. Both Statements I and Statement II are true
2. Both Statements I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 71087018385. 1
- 71087018386. 2
- 71087018387. 3
- 71087018388. 4

Question Number : 98 Question Id : 7108704598 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which food poisoning organism is responsible for emetic syndrome?

1. *Clostridium botulinum*
2. *Salmonella typhimurium*
3. *Bacillus cereus*
4. *Staphylococcus aureus*

Options :

71087018389. 1
71087018390. 2
71087018391. 3
71087018392. 4

Question Number : 99 Question Id : 7108704599 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the HACCP flow diagram for the process of raw milk pasteurization, the steps that can be kept as potential CCPs are

- A. Temperature of pasteurization
- B. Time of pasteurization
- C. Filtration of milk
- D. Clarification of milk
- E. Acidity of milk

Choose the correct answer from the options given below:

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

Options :

71087018393. 1
71087018394. 2

71087018395. 3

71087018396. 4

Question Number : 100 Question Id : 7108704600 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In addition to lactic acid, heterofermentative lactic acid bacteria are able to produce which of the following from glucose fermentation?

- A. Hippuric acid
- B. Carbon dioxide
- C. Acetic acid
- D. Propionic acid
- E. Formic acid

Choose the correct answer from the options given below:

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

Options :

71087018397. 1

71087018398. 2

71087018399. 3

71087018400. 4

Question Number : 101 Question Id : 7108704601 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following ions are essential for attachment and penetration of bacteriophage into host bacterial cell?

1. Calcium
2. Magnesium
3. Manganese
4. Molybdenum

Options :

71087018401. 1
71087018402. 2
71087018403. 3
71087018404. 4

Question Number : 102 Question Id : 7108704602 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The total number of amino acids in nisin is

1. 30
2. 31
3. 34
4. 20

Options :

71087018405. 1
71087018406. 2
71087018407. 3
71087018408. 4

Question Number : 103 Question Id : 7108704603 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The principle on which bactofugation removes spores from milk is

- A. Centrifugal force
- B. Density
- C. Oxidation reduction potential
- D. pH
- E. Electrical conductivity

Choose the correct answer from the options given below:

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

Options :

- 71087018409. 1
- 71087018410. 2
- 71087018411. 3
- 71087018412. 4

Question Number : 104 Question Id : 7108704604 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The FSSR microbiological standard for APC counts of pasteurized milk are

- A. m- 10,000 cfu/ml
- B. m- 20,000 cfu/ml
- C. m- 30,000 cfu/ml
- D. M- 40,000 cfu/ml
- E. M- 50,000 cfu/ml

Choose the correct answer from the options given below:

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

Options :

- 71087018413. 1
- 71087018414. 2
- 71087018415. 3
- 71087018416. 4

Question Number : 105 Question Id : 7108704605 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The enzyme reverse transcriptase helps in the synthesis of

- 1. DNA from DNA template
- 2. RNA from DNA template
- 3. cDNA from DNA template
- 4. cDNA from RNA template

Options :

- 71087018417. 1
- 71087018418. 2
- 71087018419. 3

71087018420. 4

Question Number : 106 Question Id : 7108704606 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The origin of replication of *E. coli* is:

- A. a 245 bp region
- B. having 3 repeats of 13 bp long sequence
- C. also referred as OriC
- D. also referred as autonomous replicating sequence
- E. a palindromic sequence

Choose the correct answer from the options given below:

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

Options :

71087018421. 1

71087018422. 2

71087018423. 3

71087018424. 4

Question Number : 107 Question Id : 7108704607 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Yoghurt	I. Ropy milk
B. Kumiss	II. High acid fermented milk
C. <i>Bulgarian sour milk</i>	III. Symbiosis
D. <i>Taette</i>	IV. Mares milk

Choose the correct answer from the options given below:

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

Options :

71087018425. 1

71087018426. 2

71087018427. 3

71087018428. 4

Question Number : 108 Question Id : 7108704608 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Transformation	I. tRNA
B. Conjugation	II. Electroporation
C. Translation	III. Rho protein
D. Transcription	IV. F Plasmid

Choose the correct answer from the options given below:

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

Options :

71087018429. 1
 71087018430. 2
 71087018431. 3
 71087018432. 4

Question Number : 109 Question Id : 7108704609 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following are also known as metachromatic granules?

1. Glycogen
2. Volutin
3. Cyanophycin
4. Carboxysomes

Options :

71087018433. 1
71087018434. 2
71087018435. 3
71087018436. 4

Question Number : 110 Question Id : 7108704610 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: *Lactobacillus plantarum* has been designated as Qualified Presumption of Safety (QPS) status.

Reason R: QPS status is designated by the European Food Safety Authority (EFSA) of the European Union.

In light of the above statements, choose the **most appropriate** 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 not false
4. **A** is not false but **R** is true

Options :

71087018437. 1
71087018438. 2
71087018439. 3
71087018440. 4

Question Number : 111 Question Id : 7108704611 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Time for killing cells of spores under a given set of conditions increases as temperature is increased

Statement II: Conditions under which cells have been grown and spores have been produced and their treatment thereafter influence their resistance to heat

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 71087018441. 1
- 71087018442. 2
- 71087018443. 3
- 71087018444. 4

Question Number : 112 Question Id : 7108704612 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Incipient or gentle boiling with the temperature about 100°C is known as

1. Pasteurization
2. Thermization
3. Sterilization
4. Simmering

Options :

71087018445. 1
 71087018446. 2
 71087018447. 3
 71087018448. 4

Question Number : 113 Question Id : 7108704613 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Refractive Index	I. Cotton plugging
B. T. von Dusch	II. Joseph Meister
C. Louis Pasteur	III. Abbe's Equation
D. Lipoteichoic acid	IV. Ribitol

Choose the correct answer from the options given below:

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

Options :

71087018449. 1
 71087018450. 2
 71087018451. 3
 71087018452. 4

Question Number : 114 Question Id : 7108704614 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For formation of stable hydrogen bonds, the N-N distance between bases in DNA is

1. 0.5 nm
2. 10 nm
3. 0.30 nm
4. 30 nm

Options :

71087018453. 1
 71087018454. 2
 71087018455. 3
 71087018456. 4

Question Number : 115 Question Id : 7108704615 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Coenzyme Q	I. Group translocation
B. Lithotrophs	II. Oxidative phosphorylation
C. Electron Transport Chain	III. Ubiquinone
D. PEP: Phosphotransferase system	IV. Inorganic electron source

Choose the correct answer from the options given below:

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

Options :

- 71087018457. 1
- 71087018458. 2
- 71087018459. 3
- 71087018460. 4

Question Number : 116 Question Id : 7108704616 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The baffle diameter in a standard bioreactor is what fraction of the reactor diameter?

- 1. 1:4
- 2. 1:10
- 3. 1:15
- 4. 1:20

Options :

- 71087018461. 1
- 71087018462. 2
- 71087018463. 3
- 71087018464. 4

Question Number : 117 Question Id : 7108704617 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

High Hydrostatic Pressure (HHP) utilizes pressure in the what range for typical antimicrobial actions?

- 1. 1-200 MPa
- 2. 200-1000 MPa
- 3. 1000-5000 MPa
- 4. 5000-10000 MPa

Options :

71087018465. 1
71087018466. 2
71087018467. 3
71087018468. 4

Question Number : 118 Question Id : 7108704618 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is correct?

- A. Alcohols acts by protein denaturation
- B. Iodine acts by protein oxidation
- C. Antimicrobial action of Chlorine is due to formation of Hypochlorous acid
- D. Heavy metals acts antimicrobially by DNA damage
- E. Ethylene oxide leads to alkylation of enzymes and other proteins

Choose the correct answer from the options given below:

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

Options :

71087018469. 1
71087018470. 2
71087018471. 3
71087018472. 4

Question Number : 119 Question Id : 7108704619 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The starter cultures used during the production of Swiss cheese are:

- A. *S. thermophiles*
- B. *L. bulgaricus*
- C. *L. helveticus*
- D. *Lactococcus lactis*
- E. *Propionibacterium shermanii*

Choose the correct answer from the options given below:

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

Options :

- 71087018473. 1
- 71087018474. 2
- 71087018475. 3
- 71087018476. 4

Question Number : 120 Question Id : 7108704620 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The restriction site for EcoR1 enzyme is

- 1. CAGCTG
- 2. GGATCC
- 3. GAATTC
- 4. AAGCTT

Options :

- 71087018477. 1
- 71087018478. 2
- 71087018479. 3

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71087018480.4