1.	Reni of ca	net is the crude preparation or lf	ext	ract obtained from this part
	(A)	Rumen	(B)	Reticulum
	(C)	Omasum	(D)	Abamasum
	(E)	Answer not known		
2.	In (	Cheddar cheese preparation, urs	add	lition of Calcium chloride
	(A)	Standardization process	(B)	Rennet action
	(C)	Homogenisation	(D)	Starter action
	(E)	Answer not known		
3.	Whi	ch one of the following cheeses i	s no	t a swiss-type cheese?
	(A)	Alpine Creamy cheese	(B)	Appenzeller cheese
	(C)	Cottage cheese	(D)	Emmental cheese
	(E)	Answer not known		
4.		ch one of the following cheeses gory?	doe	es not belong to Pasta filata
	(A)	Mozzarella	(B)	Provolone
	(C)	Cheddar	(D)	Scamorza
	(E)	Answer not known		
5.		ch one of the following microorg	anis	ms is not used as a source of
	(A)	Aspergillus Oryzae	(B)	Rhizomucor Miehei
	(C)	Staphylococcus aureus	(D)	Endothia Parasitica
	(E)	Answer not known		

6.		ese is the product obtained on the help of rennet in presen		milk by coagulating case in		
	(A)	Sulphuric acid	(B)	Lactic acid		
	(C)	Hydrochloric acid	(D)	Malic acid		
	(E)	Answer not known				
7.	Whi	ich of the following cheese is r	not a ba	acterial ripened cheese?		
	(A)	Cheddar cheese	(B)	Swiss cheese		
	(C)	Cottage cheese	(D)	Roquefort cheese		
	(E)	Answer not known				
8.	Which of the following are referred as "Heart of Cheese"?					
	(A)	Rennet	(B)	Starter culture		
	(C)	Cheddaring	(D)	Curing process		
	(E)	Answer not known				
9.	Excessive heat treatment of cheese milk results in precipitation of part of calcium salts and this can be compensated by the addition calcium chloride at the rate of					
	(A)	1 to 3%	(B)	0.1 to 0.3%		
	(C)	0.01 to 0.03%	(D)	0.5 to 1%		
	(E)	Answer not known				

10.	mill	standard method for the detect is based on the separation of the plasmin.				
	(A)	Alpha casein peptide	(B)	Beta casein peptide		
	(C)	Gamma casein peptide	(D)	Delta casein peptide		
	(E)	Answer not known				
11.	The	ideal acidity (%) of sweet dahi	is			
	(A)	0.5%	(B)	0.3%		
	(C)	0.7%	(D)	1.2%		
	(E)	Answer not known				
12.	The kind of action exhibited by the yoghurt bacteria may be referred to as					
	(A)	Associative action	(B)	Parasitic action		
	(C)	Antibiosis	(D)	Mutually neutral		
	(E)	Answer not known				
13.	In Acidophilus milk preparation the starter culture Lactobacillu Acidophilus inoculated at the level of					
	(A)	1-2%	(B)	2-2.5%		
	(C)	3-5%	(D)	6-7%		
	(E)	Answer not known				

14.		ikhand is prepared by u ndardized to —————		buffalo milk which has been
	(A)	4%	(B)	5%
	(C)	6%	(D)	7%
	(E)	Answer not known		
15.		type of yoghurt produc coagulum is broken prio		mentation in bulk and then and packaging is
	(A)	Set yoghurt	(B)	Frozen yoghurt
	(C)	Stirred yoghurt	(D)	Plain yoghurt
	(E)	Answer not known		
16.		compounds like esters, this defect in cheese	acetaldehyd	le and ketones are the cause
	(A)	Bitter flavour	(B)	Fruity flavour
	(C)	Rancid flavour	(D)	Unclean flavour
	(E)	Answer not known		
17.		essive acidity and / or n defect in cheese	noisture in	cheese before curing causes
	(A)	Rind rot	(B)	Mottled
	(C)	Rubbery	(D)	Greasy
	(E)	Answer not known		

18.		mization the process forming delated with	rople	ts fine enough to dry quickly	
	(A)	Condensed milk	(B)	Ghee	
	(C)	Milk powder	(D)	Whey protein isolate	
	(E)	Answer not known			
19.	As p	per FSSR 2011, the Moisture c	onter	at in milk powder should not	
	(A)	3%	(B)	10%	
	(C)	20%	(D)	5%	
	(E)	Answer not known			
20.	Cooked flavour defect in dairy products are attributed to the following which are formed during heat treatment.				
	(A)	Sulfhydryl compound			
	(B)	Compounds containing hydro	xyl gı	coup	
	(C)	Compounds containing - COC	H gr	oup	
	(D)	Peroxides			
	(E)	Answer not known			
21.	'Food graze' plastics are uses for packing of milk and milk products to avoid				
	(A)	Spoilage by microorganism			
	(B)	Toxicity			
	(C)	Leakage			
	(D)	Contamination			
	(E)	Answer not known			

22.	———— Technology is used as the enclosure of food product, in gas barrier materials					
	(A)	Modified Atmospheric Packaging (MAP)				
	(B)	Vacuum packaging technology				
	(C)	Poly Clip System				
	(D)	All the (A), (B) and (C)				
	(E)	Answer not known				
23.	Irra	diation of packaging material may generate				
	(A)	Halogenated Polymers				
	(B)	Oxygen				
	(C)	Antioxidants				
	(D)	Catalyzing compounds				
	(E)	Answer not known				
24.	The	most widely used plastic material for laminated films sheets is				
	(A)	Polymer – 10				
	(B)	Polyamide – 6				
	(C)	Nylon-6				
	(D)	Polymer – 1				
	(E)	Answer not known				
25.	Exa	mple of a natural anti microbial polypeptide				
	(A)	E-Imazalil (B) Parabean				
	(C)	Chiteri (D) E-Polylysine				
	(E)	Answer not known				

26.		mple of a mettalic oxide nanoings on polymeric film	part	ticles used to produce nano
	(A)	MgO	(B)	CaO
	(C)	$\mathrm{Na_{2}PO_{4}}$	(D)	$\mathrm{CaO}_2$
	(E)	Answer not known		
27.	matr	y Protein Isolate (WPI) alon rix leads to reduction in maxim neability.	_	
	(A)	Sodium Caseinate	(B)	Calcium Caseinate
	(C)	Glycerol	(D)	Chitin
	(E)	Answer not known		
28.	resis	Copolymer ethylene which stance and lower haze neability is	has and	_
	(A)	Ethylene acrylic acid		
	(B)	Ionomer		
	(C)	Polystyrene		
	(D)	Low density polyethylene		
	(E)	Answer not known		
29.	The	common components of intellig	ent p	packaging system is
	(A)	EVOH Ethylene Vinyl Alcohol	Cop	olymer
	(B)	Immobilized Enzymes		
	(C)	Ethylene		
	(D)	Carbon di-oxide		
	(E)	Answer not known		

30.		enzyme immobilized in conjungen scavenger is	action with catalase for use as an			
	(A)	Lactase	(B) Xanthooxidase			
	(C)	Amylase	(D) Glucose Oxidase			
	(E)	Answer not known				
31.		The adhesives used with ungammed of labels for high speed labelling of metal and glass container is				
	(A)	Sorbitate	(B) Corn Syrup			
	(C)	Dextrine	(D) Glucones			
	(E)	Answer not known				
32.	the	——————————————————————————————————————	nently and aggressively taking in bond instantaneously to a wide			
	(A)	Solvent based adhesives				
	(B)	Pressure sensitive adhesives				
	(C)	Hot melt adhesives				
	(D)	Water borne adhesives				
	(E)	Answer not known				
33.	IML	S is differentiated from conven	tional glue on labels by the			
	(A)	Heat seal coat on the backside of IML stock				
	(B)	Cold seal coat on the backside of IML				
	(C)	Adhesive seal on the backside	of IML			
	(D)	Solvent seal on the backside o	f IML			
	(E)	Answer not known				

34.	The	Finger prints of flow refers to			
	(A)	Bingham model	(B)	Shear ratio	
	(C)	Young's modulus	(D)	Extensograms	
	(E)	Answer not known			
35.	The	time of observation dividedly t	he tiı	me of deformation is termed	
	(A)	Deborah number	(B)	Maxwell number	
	(C)	Reynold's number	(D)	Faringraph number	
	(E)	Answer not known			
36.	Under turbulent conditions the flow behaviour of Newtonian and non Newtonian liquids tends to become indistinguishable and the number which indicates the onset of turbulence is termed				
	(A)	Critical Reynolds number			
	(B)	Critical Richmonds number			
	(C)	Critical Rectangles number			
	(D)	Critical Ritherdsons number			
	(E)	Answer not known			
37.	side	hydrocolloid which has a long chains D-galactose making tion without precipitation is			
	(A)	Agar	(B)	Guar Gum	
	(C)	Locust Bean	(D)	Amylose	
	(E)	Answer not known			

38.		There is only one gum used in the food industry which is not a carbohydrate and is hydrophobic and it is				
	(A)	Algin	(B)	Quince		
	(C)	Tragacanth	(D)	Chicle		
	(E)	Answer not known				
39.		sweetner which depresses the		ezing point of mix twice as		
	(A)	Corn syrup	(B)	Glucose		
	(C)	Maltose	(D)	Rabinose		
	(E)	Answer not known				
40.	In concentrated milk the final size of the lactose crystals in one product should not exceed					
	(A)	$15 \mu m$	(B)	$20 \mu m$		
	(C)	8 μm	(D)	$10 \mu m$		
	(E)	Answer not known				
41.	Und mea	lermost conditions milk behavens	es a	s a Newtonian liquid which		
	(A)	Shear stress is proportional to	she	ar rate		
	(B)	Shear stress is inversely proportional to shear rate				
	(C)	Shear stress and rate are equal				
	(D)	Shear rate and shear stress is	disp	proportional		
	(E)	Answer not known				

42.		t treatment of cheese milk to imental effort on clothing and t		-
	(A)	Syneresis	(B)	Hysteresis
	(C)	Soft Curd	(D)	Tallowiness
	(E)	Answer not known		
43.		ogical Oxygen Demand (BOD) ers is about	) rei	noval by low rate trickling
	(A)	30%	(B)	60%
	(C)	70%	(D)	85%
	(E)	Answer not known		
44.	diss	substances that are added as olving scale and time depos tion clear are called as		
	(A)	Poly electrolytes	(B)	Chelating agents
	(C)	Oxidizers	(D)	Fillers
	(E)	Answer not known		
45.		ch one of the following state phors as a sanitizing agent?	eme	ents is incorrect as far as
	(A)	They are effective against yea	st ar	nd mould
	(B)	They are non irritating		
	(C)	Effective at alkaline pH and e	levat	ted temperatures
	(D)	Low in toxicity		
	(E)	Answer not known		

46.		etiological agent and components in milk are ———————————————————————————————————					
	(A)	(A) Streptococcus lactis; Fat and Protein					
	(B)	B) Escherichia coli; Lactose and minerals					
	(C)	C) Alcaligenes Viscolactis; Gums and mucins					
	(D)	Mycobacterium tuberculosis; Fat and fat soluble vitamins					
	(E)	Answer not known					
47.	The	etiological agent for the disease	Q fe	ever is			
	(A)	Coxiella burnetti	(B)	Campylobacter Jejuni			
	(C)	Nocardia asteroides	(D)	Saccharomyces fragilis			
	(E)	Answer not known					
48.	The defect "Sweet Curdling" associated with mica and cream is due to the production of ———— enzyme by bacteria.						
	(A)	Rennin like	(B)	Pepsin like			
	(C)	Amylase like	(D)	Trypsin like			
	(E)	Answer not known					
49.	is ca for	fruity flavour defect in milk and aused by ———————————————————————————————————	and				
	(A)	Pseudomonas nigrifaciens; ace	tald	ehyde and glycol			
	(B)	Pseudomonas fragi; butylene g	lyco	l and methyl butanol			
	(C)	Pseudomonas fragi; ethyl buty	rate	and ethyl hexanoate			
	(D)	Pseudomonas aeruginosa; ethy	l bu	tyrate and ethyl hexanoate			
	(E)	Answer not known					

50.	Hot	Hotis test is used to differentiate which among the two organisms?					
	(A)	Streptococcus lactis and Strep	ptococcus cremoris				
	(B)	Staphylococcus aureus and Streptococcus agalactiae					
	(C)	Lactobacillus acidophilus and lactobacillus bulgaricus					
	(D)	Lactobacillus acidophilus and	l lactobacillus casei				
	(E)	Answer not known					
51.		ch one of the following factor wing requirements for moulds?	is incorrect with respect to ideal				
	(A)	Low pH	(B) Low water activity				
	(C)	Absence of air	(D) High osmotic pressure				
	(E)	Answer not known					
52.		Wet mount method of examining the microorganisms help in detecting ————— of microorganisms.					
	(A)	Fermentation ability	(B) Motility				
	(C)	Pathogenicity	(D) Probiotic property				
	(E)	Answer not known					
53.		ch one among the following eration time?	ng bacteria have the shortest				
	(A)	Staphylococcus aureus	(B) Escherichia coli				
	(C)	Bacillus megaterium	(D) Streptococcus lactis				
	(E)	Answer not known	· · · · · · · · · · · · · · · · · · ·				
	` /						

54.		ch one of the following bact lsen staining method?	eria	can	be	stained by Ziehl –
	(A)	Streptococcus	(B)	My	coba	ıcterium
	(C)	Bacillus	(D)	Clo	stri	dium
	(E)	Answer not known				
55.		ch one of the following staining to heat fixing?	ng m	etho	ds d	loes not distort cells
	(A)	Gram staining	(B)	Neg	gativ	ve staining
	(C)	Acid fast staining	(D)	End	dosp	ore staining
	(E)	Answer not known				
56.		ch type of haemolysis is produ d agar plate?	ıced	by s	tapl	nylococcus aureus in
	(A)	Alpha haemolysis	(B)	Bet	a ha	aemolysis
	(C)	Gamma haemolysis	(D)	Del	ta h	aemolysis
	(E)	Answer not known				
57.	follo	rporated as a part of cleani wing substances possesses p ion, have good wetting, pene dispersing abilities	rope	rties	suc	ch as lower surface
	(A)	Builders	(B)	Sur	fact	ants
	(C)	Enzymes	` ,	Oxi		
	(E)	Answer not known	ŕ			

58.	The disease summer mastitis is caused by					
	(A)	Staphylococcus aureus	(B) Corynebacterium pyogenes			
	(C)	Streptococcus agalactiae	(D) Escheriachia Coli			
	(E)	Answer not known				
59.		•	er activity test) the quantum of on of incubation respectively are			
	(A)	5%, 40°C and 3 h	(B) 3%, 37°C and 3.5 h			
	(C)	$1\%$ , $35$ °C and $5~\mathrm{h}$	(D) 2%, 37°C and 3 h			
	(E)	Answer not known				
60.	Which one of the following methods facilitate phage attack in starter culture?					
	(A)	Growing starters in calcium	rich medium			
	(B)	Rotation of starters				
	(C)	Immunizing starters by treat	tment with attenuated phages			
	(D)	Renneting milk within 30 minutes of infection				
	(E)	Answer not known				
61.		eptococcus thermophilus can owing groups?	be fit into which one of the			
	(A)	Lactic	(B) Pyogenic			
	(C)	Viridans	(D) Enterococcus			
	(E)	Answer not known				

62.		ch one of the following protective agent during freeze				
	(A)	Sucrose	(B)	Sorbitol		
	(C)	Amino acids	` '	Sodium hydroxide		
	(E)	Answer not known	` ,	·		
63.	The than	alcohol content of Taette (Scar	ndina	avian ropy milk) is not more		
	(A)	1.5%	(B)	5%		
	(C)	3%	(D)	0.3 to 0.5%		
	(E)	Answer not known				
64.	Which one of the following statement is correct?					
	(i)	Fat globule of colustrum are l	arge	and Irregular.		
	(ii)	Fat of colustrum contains butter fat.	eight	times Vit-A than normal		
	(iii)	Fat globule of colustrum and milk are same.				
	(iv)	Globulins of colustrum will be wall by newly borne calves wi				
	(A)	(i) is correct	(B)	(i), (ii) and (iii) are correct		
	(C)	(i), (ii) and (iv) are correct	(D)	(iv) only correct		
	(E)	Answer not known				
65.	Avei	rage lactose content in milk is -		%.		
	(A)	4.0	(B)	3.5		
	(C)	4.9	, ,	4.2		
	(E)	Answer not known				

66.	Hormone responsible for synthesis of milk in upper cells is					
	(A)	Adrenaline	(B) Somatotropin			
	(C)	Oxytoxin	(D) Insulin			
	(E)	Answer not kno	own			
67.	Whi	ch of the followin	g statements are not true about "Clean Milk"?			
	(i)	Milk produced and handled under hygenic conditions.				
	(ii)	Contains large	number of bacteria.			
	(iii)	Free from haz keeping quality	cardous chemical residues and possess good			
	(A)	(i) only	(B) (i) and (ii) only			
	(C)	(ii) only	(D) (ii) and (iii) only			
	(E)	Answer not kno	own			
68.	Which one of the following is correctly matched?					
	(A)	Sunandini –	Central Institute for Research on Cattle, Meerut			
	(B)	Frieswal –	Indo-Swiss project, Kerala			
	(C)	Karan Swiss - National Dairy Research Institute, Karnal				
	(D)	Vrindavani –	Livestock Development Board, Tamilnadu			
	(E)	Answer not kno	own			
69.	The	total milk solids	content of Holstein – Friesian breed is			
	(A)	12.2	(B) 13.1			
	(C)	15.0	(D) 14.0			
	(E)	Answer not kno	own			

- 70. ———— is the lightest and variable constituent of milk.
  - (A) Protein

(B) Carbohydrate

(C) Fat

- (D) Vitamins
- (E) Answer not known
- 71. Refractive index of milk at 20°C is
  - (A) 1.35

(B) 1.10

(C) 1.20

- (D) 1.25
- (E) Answer not known
- 72. Choose the right matches among type based on the specific gravity.
  - 1. Water -0.93 0.95
  - 2. Cow milk 1.028 1.030
  - 3. Buffalo milk -1.030 1.032
  - 4. Skim milk -1.038 1.040
  - (A) 1 and 2 are correct
- (B) 2 and 4 are correct
- (C) 2 and 3 are correct
- (D) 1 and 4 are correct
- (E) Answer not known

73.	Which of the following statement(s) is/are correct?						
	(i)	Freezing point of any solupressure.	ution is	s proportional to osmotic			
	(ii)	Osmotic pressure and freez salts and lactose.	ing poi	nt of milk is controlled by			
	(iii)	Addition of water will alterpoint.	er osmo	otic pressure and freezing			
	(A)	(i) and (ii) only correct	(B) (	i) and (iii) only correct			
	(C)	(i), (ii) and (iii) are correct	(D) (	ii) and (iii) only correct			
	(E)	Answer not known					
74.		principal constituent of mession is	ilk tha	t leads to freezing point			
	(A)	Fat	(B) (	Casein			
	(C)	Whey proteins	(D) I	Lactose			
	(E)	Answer not known					
75.		minimum weight to be atta	ined by	a cross breed animal for			
	(A)	200	(B) 2	220			
	(C)	250	(D) 3	300			
	(E)	Answer not known					
76.		reduces milk yield	l and al	lso increases fat content of			
	milk						
	(A)	Acidosis	(B) I	Mastitis			
	(C)	Ketosis	(D) I	Brucellosis			
	(E)	Answer not known					
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77.	Calf of	hood vaccination against bruce	ellosis should be between the age					
	(A)	1-3 months	(B) 4-8 months					
	(C)	8-10 months	(D) 2 to 5 months					
	(E)	Answer not known						
78.		d the following statements ement(s) that are correct.	about milk fever. Find the					
	(i)	Occur at the time of parturition	on.					
	(ii)	Caused by hypocalcemia.						
	(iii)	The plasma level of magnesium also decrease.						
	(iv)	Mature dairy cows are most co	ommonly affected					
	(A)	(i), (ii), (iii) are correct	(B) (i), (iii), (iv) are correct					
	(C)	(i), (ii), (iv) are correct	(D) (ii), (iii) and (iv) are correct					
	(E)	Answer not known						
79.			g system is adopted to gain the individual merit of dairy cattle?					
	(A)	Out crossing	(B) Cross breeding					
	(C)	Live breeding	(D) Grading up					
	(E)	Answer not known						

Which of the following statements are correct with respect to Foot and Mouth Disease (FMD)?							
(i)	Caused by picorna virus						
(ii)	Causes 1-2% mortality in calves below 3 months of age.						
(iii)	The virus is resistant to alcoho	ol.					
(iv)	FMD has been eradicated from	n Ind	dia.				
(A)	(i) and (ii) are correct	(B)	(i) and (iii) are correct				
(C)	(i), (ii) and (iii) are correct	(D)	(iv) alone correct				
(E)	Answer not known						
Pink	eye in cattle is caused by						
(A)	Morexella basis	(B)	Histophilus				
(C)	Haemophilus	(D)	Pasterulla				
(E)	Answer not known						
Most	pathogenic Babesia sp. in Bon	ine i	s/are				
(A)	Babesiabigemine	(B)	Babesia basis				
(C)	Babesia caballi	(D)	Babesia divergeas				
(E)	Answer not known						
Drug of choice for Theileriosis is/are							
(A)	Diminazene aceturate						
(B)	Buparvaquone						
(C)	Diminazene aceturate as Bupa	arva	quone				
(D)	Atovaquone						
(E)	Answer not known						
	and I (i) (ii) (iii) (iv) (A) (C) (E) Pink (A) (C) (E) Trug (A) (B) (C) (D)	and Mouth Disease (FMD)?  (i) Caused by picorna virus  (ii) Causes 1-2% mortality in calve  (iii) The virus is resistant to alcoholo  (iv) FMD has been eradicated from  (A) (i) and (ii) are correct  (C) (i), (ii) and (iii) are correct  (E) Answer not known  Pink eye in cattle is caused by  (A) Morexella basis  (C) Haemophilus  (E) Answer not known  Most pathogenic Babesia sp. in Bon  (A) Babesiabigemine  (C) Babesia caballi  (E) Answer not known  Drug of choice for Theileriosis is/are  (A) Diminazene aceturate  (B) Buparvaquone  (C) Diminazene aceturate as Bupa  (D) Atovaquone	and Mouth Disease (FMD)?  (i) Caused by picorna virus  (ii) Causes 1-2% mortality in calves be (iii) The virus is resistant to alcohol.  (iv) FMD has been eradicated from Ind (A) (i) and (ii) are correct (B)  (C) (i), (ii) and (iii) are correct (D)  (E) Answer not known  Pink eye in cattle is caused by  (A) Morexella basis (B)  (C) Haemophilus (D)  (E) Answer not known  Most pathogenic Babesia sp. in Bonine in (A) Babesiabigemine (B)  (C) Babesia caballi (D)  (E) Answer not known  Drug of choice for Theileriosis is/are  (A) Diminazene aceturate  (B) Buparvaquone  (C) Diminazene aceturate as Buparva  (D) Atovaquone				

84.	The product prepared from pre-concentrating a mixture of whey and skim milk in a vacuum evaporator is							
	(A)	Plain condensed whey	(B)	Whey vit				
	(C)	Carbonated whey vit	(D)	Whey paste				
	(E)	Answer not known						
85.	Micr	roorganism used to produce	e wheyvit	is				
	(A)	Saccharomyces cervevisa	e					
	(B)	Lactic acid bacteria						
	(C)							
	(D)	Lactobacillus bulgaricus						
	(E)	Answer not known						
86.	Assertion [A] : Steam jacketed vat is recommended for casein production.							
	Reasons [R] : Casein is heat sensitive.							
	(A)	[A] is true but [R] is false						
	(B)	Both [A] and [R] are true [A]	; and [R]	is the correct explanation of				
	(C)	[A] is false, [R] is true						
	(D)	Both [A] and [R] are true; and [R] is not the correct explanation of [A]						
	(E)	Answer not known						
87.	Rennet casein is not used in the manufacturing of							
	(A)	Jewellery	(B)	In medicines				
	(C)	Adhesive	` ′	Films				
	(E)	Answer not known	` '					

88.		——— used as a fat repla	acer	in processed cheese, which
	redu	ces its hardness.		•
	(A)	Milk fats	(B)	Whey protein concentrate
	(C)	Skimmed milk	(D)	Rennin
	(E)	Answer not known		
89.	Whi	ch is the most common whey pr	oteii	n?
	(A)	Lactoglobulin	(B)	Albumin
	(C)	Ovalbumin	(D)	Casein
	(E)	Answer not known		
90.		ne the organism added during termilk to increase the flavor?	he p	process of producing cultured
	(A)	Leuconostoc sp.	(B)	Bacillus sp.
	(C)	Acinetobacter sp.	(D)	Achromobacter sp.
	(E)	Answer not known		
91.		ne the variety of cheese produce in color and ripened with mold		om sour shine milk which is
	(A)	Mozeralla	(B)	Cheddar
	(C)	Gammelost	(D)	Cottage cheese
	(E)	Answer not known		
92.		ne the product obtained after s agulated with acid or proteolyti	-	
	(A)	Shine milk	(B)	Casein
	(C)	Whey	(D)	Cheese
	(E)	Answer not known		

93.	Addition of Acid to milk results in the disassociation of ——————————————————————————————————							
	(A) Calcium caseinate calcium phosphate complex							
	(B)	Sodium caseinate calcium	- ohospha	ate complex				
	(C)	Calcium caseinate calcium	Calcium caseinate calcium sulphate complex					
	(D)	Calcium caseinate sodium s	sulphat	se complex				
	(E)	Answer not known	_					
94.		at is the reason behind brow ect to fat?	ning ir	n casein manufacturing with				
	(A)	Because of high heat						
	(B)	Presence of excess fat while	e drying	y S				
	(C)	Reaction between sugars and protein						
	(D)	Presence of protein						
	(E)	Answer not known						
95.		functionality of the processe	d chees	se spreads could be enhanced				
	(A)	Buttermilk concentrate	(B)	Dairy fats				
	(C)	Whey protein	(D)	Skimmed milk				

	corr	ect?				
	(i)	precipitate at pH 4.6				
	(ii)	more water soluble than case	ins			
	(iii)	have good gelling properties a	nd p	oor whipping properties		
	(iv)	Prone to heat denaturation				
	(A)	(i), (ii) and (iii) are correct	(B)	(i), (ii) and (iv) are correct		
	(C)	(i), (iii) and (iv) are correct	(D)	(ii), (iii) and (iv) are correct		
	(E)	Answer not known				
97.	The product obtained by separating washing and drying the acid precipitated coagulate of skimmed milk is					
	(A)	Rennet casein	(B)	Co-precipitate		
	(C)	Industrial casein	(D)	Edible casein		
	(E)	Answer not known				
98.		et whey is preferred over acose due to its	id w	hey in the manufacture of		
	(A)	High lactose and low ash content				
	(B)	Low lactose and low ash content				
	(C)	Low lactose and high ash con-	tent			
	(D)	Moderate lactose and low ash	cont	cent		
	(E)	Answer not known				

Which of the following statements about whey protein is/are

96.

99.	———— whey containing 70 percent total solids is used in production of chicken feed.				
	(A)	Sweetened condensed whey	(B) Plain condensed whey		
	(C)	Yeast whey	(D) Whey paste		
	(E)	Answer not known			
100.	Carbohydrates present in Dairy waste water can stimulate the growth of				
	(A)	Bacteria	(B) Fungi		
	(C)	Both bacteria and fungi	(D) Bacteria and protozoa		
	(E)	Answer not known			
101.	In Anaerobic treatment at ETP — % of organic matter can decomposed to produce biogas.				
	(A)	95%	(B) 70%		
	(C)	80%	(D) 85%		
	(E)	Answer not known			
102.		Chemical Oxygen Demand (CC	DD) in Dairy Waste water can be		
	(A)	3 hours	(B) 6 hours		
	(C)	3 days	(D) 5 days		
	(E)	Answer not known			

103.	Perm addi	nanent Hardness of water in	a l	Dairy plant is removing by
	(A)	Sodium carbonate	(B)	Sodium chloride
	(C)	Potasium Chloride	(D)	Potasium Carbonate
	(E)	Answer not known		
104.	After	r rinsing, the bottles are kep ppm for some time.	t in	a cold chlorine solution at
	(A)	10 to 90 ppm	(B)	300 to 400 ppm
	(C)	100 to 200 ppm	(D)	450 to 550 ppm
	(E)	Answer not known		
105.	All t	ype of sanitizers and deterger erial.	its c	can be used for ————
	(A)	Paper corrugated boards	(B)	Stainless steel
	(C)	Tinned containers	(D)	Plastics
	(E)	Answer not known		
106.		rine solution at 15 - 20°C with rine is used for a contact time of els.		
	(A)	250 to 350 ppm	(B)	150 to 200 ppm
	(C)	90 to 100 ppm	(D)	400 to 600 ppm
	(E)	Answer not known		

	ns for dried milk production are normally horizontal, hollow cylinder with
(A)	90 to 360 cm length and 60 to 120 cm diameter
(B)	90 to 180 cm length and 60 to 120 cm diameter
(C)	90 to 360 cm length and 60 - 100 cm dia
(D)	$90\ {\rm to}\ 360\ {\rm cm}$ length and $60$ - $220\ {\rm cm}$ diameter
(E)	Answer not known
108. Tone	d milk should contain a minimum of ———— and ———.
(A)	3% fat and 8.5% SNF (B) 3.5% fat and 8.5% SNF
(C)	4.5% fat and 8.5% SNF (D) 3% fat and 9.0% SNF
(E)	Answer not known
	eurization of cream refers to the process of heating every cle of cream not less than  60°C and holding atleast 20 minutes 71°C and holding atleast 20 minutes 80°C and holding atleast 20 minutes 74°C and holding atleast 20 seconds Answer not known
	Itra High Temperature (UHT) method of sterilization the milk ated upto $115^{\circ}\mathrm{C}$ for few seconds $145^{\circ}\mathrm{C}$ for few minutes $135^{\circ}-150^{\circ}\mathrm{C}$ for few seconds $145^{\circ}-160^{\circ}\mathrm{C}$ for few seconds
(E)	Answer not known
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	(A)	3 microns					
	(B)	No change					
	(C)	2 microns and less than 2 microns					
	(D)	More than 3 microns					
	(E)	Answer not known					
112.	Flow	Diversion Value (FDV) is oper	ated	by			
	(A)	Air pressure of milk		Temperature of milk			
	(C)	Both (A) and (B)	(D)	Volume of milk			
	(E)	Answer not known					
112	"Cho	ddaring" is the combined opera	tion	s of			
110.			.01011	5 01			
	(1)	Packing					
	(2)	Turning					
	(3)	Piling					
	(4)	Repiling					
	(A)	1, 2 and 4 alone correct	(B)	2, $3$ and $1$ not correct			
	(C)	3, 4 and 1 correct	(D)	1, 2, 3, 4 correct			
	(E)	Answer not known					

111. After homogenization, the milk fat globules are subdivided into

114.	Milk	x processing plant generally should be located at			
	1.	Near Highway and railwa	У		
	2.	Closed to marketing and	consumption a	rea	
	3.	Remote and village area			
	(A)	1 alone correct	(B) 2 alo	ne correct	
	(C)	Both 1 and 2 is correct	(D) 3 alo	ne correct	
	(E)	Answer not known			
115.		ning of dairy plant layo	it is a joint	venture with	following
	1.	Architects			
	2.	Dairy manager			
	3.	Dairy Engineers			
	4.	Dairy administrations			
	(A)	1 and 2	(B) 2 and	d 3	
	(C)	3 and 4	(D) 1, 2,	3, 4	
	(E)	Answer not known			
116.	The 1	temperature of Alkaline so	lution in CIP	should be atle	ast
	(A)	70°C	(B) 80°C	,	
	(C)	60°C	(D) 90°C	,	
	(E)	Answer not known			
117.	Milk	fat in equipment are clear	ed by		
	(A)	Acid detergent	(B) Alka	line detergent	-
	(C)	Hot water rise	(D) Cold	water rinse	
	(E)	Answer not known			
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118.	The in mi	constituent of rilk.	milk	, occurs nowhere other than	
	(A)	Casein	(B)	Whey protein	
	(C)	Lactose	(D)	Fat	
	(E)	Answer not known			
119.		ose is used as a seed mater in dairy products.	rial	to induce — in	
	(A)	Partially saturated solution	(B)	Fine crystal formation	
	(C)	Fine lactose glass formation	(D)	Fully saturated solution	
	(E)	Answer not known			
120.	The ———— contents differ among breeds in the same direction but to a smaller extent than fat content, whereas the ash content is relatively constant.				
	(A)	Protein and lactose	(B)	Protein and fat	
	(C)	Fat and lactose	(D)	Fat and minerals	
	(E)	Answer not known			
121.	addit	er food safety and standards (F tives) Regulations, 2011 the to ore than		_	
	(A)	200 ppm	(B)	500 ppm	
	(C)	700 ppm	(D)	900 ppm	
	(E)	Answer not known			

122.	Which of the following statement(s) are correct with respect to chemical quality assessment of raw milk?						
	(i)	Sample should be collected after thorough mixing.					
	(ii)	Samples has to be delivered or	n the same day for testing.				
	(iii)	Labelling of samples is mandatory.					
	(iv)	Sampling procedure differs according to the nature of material required.					
	(A)	(i), (ii) and (iii) are correct					
	(B)	(i), (iii) (iv) are correct					
	(C)	(i), (ii) and (iv) are correct					
	(D)	(i), (ii), (iii) and (iv) are correct					
	(E)	Answer not known					
123.	Most commonly used preservation in milk for bacteriological, physical and chemical analysis						
	(A)	Formalin	(B) DMSO				
	(C)	Boric acid	(D) Benzoic acid				
	(E)	Answer not known					
124.		general grade Agmark Green L ee fatty acids.	abel ghee contain ————————————————————————————————————				
	(A)	Not more than 1.5	(B) Not more than 2.5				
	(C)	Not more than 3	(D) Not more than 3.5				
	(E)	Answer not known					

125.				rd, the coliform count should satisfactory quality butter.				
	(A)	1	(B)	5				
	(C)	10	(D)	15				
	(E)	Answer not known						
126.		Which one of the following chemical is uses to detect adulteration of milk powder in milk?						
	(A)	Potassium permanganate	(B)	Sodium hydroxide				
	(C)	Formalin	(D)	Sodium oxide				
	(E)	Answer not known						
127.	The most common milk adulterants specified under carbohydrates are							
	(1)	Sugar, glucose, starch, malte	odextr	in				
	(2)	Sugar, urea, starch, sodium	algina	ate				
	(3)	Sugar, pectin, urea, formalin	ı					
	(4)	Sugar, gelatin, glucose, starch						
	(A)	(1), (2) is correct						
	(B)	(2), (3) is correct						
	(C)	(2) is correct						
	(D)	(1) is correct						
	(E)	Answer not known						

128.	The International Standards in the Indian context, the Codex Committee on milk and milk products was established in ———————————————————————————————————				
	(A)	1990	(B)	1991	
	(C)	1992	(D)	1993	
	(E)	Answer not known			
129.	29. ———— coordinates and promotes codex activities in India association with the National Codex Committee and facilitate India's input to the work of codex through an established consultation process.				
	(A)	Government of India	(B)	FSSAI	
	(C)	MMPO	(D)	PFA	
	(E)	Answer not known			
130.	To eliminate the problems and confusion in the trade of food items including milk, a thought of uniform standards was evolved, which has been culminated in the form of				
	(A)	BIS	(B)	AGMARK	
	(C)	CAC	(D)	FSSAI	
	(E)	Answer not known			
131.		method a specially librate the butyrometers.	desi	gned mercury pipette is used	
	(A)	BIS	(B)	MMPO	
	, ,	AGMARK	` ′	Zeal	
	` /	Answer not known	` /		
	` /				

132.	Test	Test used to indicate the mineral balance and stability of milk is		
	(A)	Alcohol test		
	(B)	Clot on boiling test		
	(C)	Alizarin-alcohol test		
	(D)	Methylene blue reduction test		
	(E)	Answer not known		
133.		gravimetric method using — at percentage in milk.	is used to quantify	
	(A)	Gerber method	(B) Milk-o-scanner	
	(C)	Rose GOTTLIEB method	(D) Modified gerber's method	
	(E)	Answer not known		
134.	The	mastitis milk has ————	— pН.	
	(A)	< 6.0	(B) $> 6.0$	
	(C)	> 6.2	(D) $> 6.8$	
	(E)	Answer not known		
195	Doda	lich nink colour of button is due	ato the growth of	
155.		dish pink colour of butter is due		
	(A)	Geotrichum candidum	(B) Phoma species	
	(C)	Mucor species	(D) Fubarium	
	(E)	Answer not known		
136.		rding to AGMARK standard douin test should be	, the general grade ghee, the	
	(A)	Minimum	(B) Lower than 5	
	(C)	Negative	(D) Lower than 7	
	(E)	Answer not known		
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137.	of r	amount of lactoperoxidase enzy	mg/l	liter, much lower than its
	conce	entration in cow milk (30 mg/li	ter).	
	(A)	0.5 to 1	(B)	1 to 1.5
	(C)	1.5 to 2	(D)	2 to 2.5
	(E)	Answer not known		
138.	BIS	Act establishing in the year		
	(A)	1954	(B)	1986
	(C)	1996	(D)	1985
	(E)	Answer not known		
139.	Prev year	ention of Foods Adulteration (l	PFA)	) Act was initiates during the
	(A)	1954	(B)	1955
	(C)	1945	(D)	1947
	(E)	Answer not known		
140.	_	per BIS, the maximum mod	istur	re content of milk powder
	(A)	2%	(B)	4%
	(C)	6%	(D)	8%
	(E)	Answer not known		
141.	As pe	er BIS, the maximum aerobic p	late	count of paneer should be
	(A)	$2.5 \times 10^5$ cfu/g	(B)	$3.5 \times 10^5$ cfu/g
	` /	$4.5 \times 10^5$ cfu/g	` /	$5.0 \times 10^5$ cfu/g
	(E)	Answer not known	(1)	o.o.n.io olang
	(11)	THE WOLLOW HILLOWIL		

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142.	Ghee	e can be store for —————	– at	21°C.
	(A)	6 to 12 months	(B)	1-2 weeks
	(C)	1-2 month	(D)	6-12 weeks
	(E)	Answer not known		
143.		d cooling of hot ghee after cl are defect.	arifi	cation cause —
	(A)	Rancid	(B)	Metallic
	(C)	Oils	(D)	Grease
	(E)	Answer not known		
144.	Clari	ification temperature for ghee r	naki	ing is
	(A)	110-120°C	(B)	80-85°C
	(C)	$135-150^{\circ}{\rm C}$	(D)	63-72°C
	(E)	Answer not known		
145.	Pane	eer contain — fat.		
	(A)	13.0	(B)	6.0
	(C)	26.0	(D)	45.3
	(E)	Answer not known		
146.	Khoa	a yield from Buffalo milk is		
	(A)	21-23%	(B)	17-19%
	(C)	25-30%	(D)	30-40%
	(E)	Answer not known		

147.	. Over run of khoa is due to			
	(A)	Sugar content	(B)	Moisture retained
	(C)	Incorporation air	(D)	Salt content
	(E)	Answer not known		
148.	Cow	milk yield in chhana is		
	(A)	15-17%	(B)	24-26%
	(C)	20-22%	(D)	22-24%
	(E)	Answer not known		
149.	Trad	itional method of misti dahi pro	epar	ed culture is inoculated at
	(A)	37°C	(B)	40°C
	(C)	10°C	(D)	$25^{\circ}\mathrm{C}$
	(E)	Answer not known		
150.	Yield	l of paneer prepared from ultra	filt	ration milk is ————
	incre	eased.		
	(A)	10%	(B)	20%
	(C)	25%	(D)	35%
	(E)	Answer not known		
151.	Froz	en Indian dairy product		
	(A)	Ice cream	(B)	Kulfi
	(C)	Lolly	(D)	Puddings
	(E)	Answer not known		

152.	2. Plastic cream contains — milk fat %.		- milk fat %.	
	(A)	68.20	(B) 25.00	
	(C)	65.85	(D) 31.80	
	(E)	Answer not known		
153	Meal	y defect in butter due to		
100.	·			
	<ul><li>(A) Incorrect neutralization of high acid cream with lime</li><li>(B) Incorrect cooling and ageing of cream</li></ul>			
	(C)	Incorrect salting of butter	Cleam	
	(D)	Incomplete working of two or i	nore lactic hutter	
	(E)	Answer not known	nore ractic batter	
	(12)			
154.	Riper	ning of cream beaten butter ma	king ———benefit.	
	(A)	Low buttermilk	(B) No buttermilk	
	(C)	No fat loss in buttermilk	(D) Low fat loss in buttermilk	
	(E)	Answer not known		
155	NIZC	) process developed butter mak	ing is	
100.	(A)	Nigerias Institute of Zuivelond		
	(A) (B)	Newslands Institute of Zuivelo		
	(C)	Norways Institute of Zuivelone		
	(D)	•		
	(E)			
		Allewet Hot Khomh		

156.	Curd	content of Butter in ranges fro	om —	%.		
	(A)	4 - 5%	(B)	0.3 - 3.0%		
	(C)	1 - 1.5%	(D)	15.5 - 16.0%		
	(E)	Answer not known				
157.	Hard	lening room temperature ——		—- °C.		
	(A)	-12  to  -45	(B)	−34 to −45		
	(C)	−23 to −26	(D)	-0 to +10		
	(E)	Answer not known				
158.	Emu	lsifier used in ice cream for				
	(A)	Reduce wipping time	(B)	Enhances flavour		
	(C)	Better body	(D)	Increase acceptability		
	(E)	Answer not known				
159.	Duri	ng ageing of ice cream the follo	wing	things are happen		
	(A)	Fat solidities and viscosity inc	reas	e		
	(B)					
	(C)					
	(D)	Decrease is over run				
	(E)	Answer not known				
1.00	<b>Л</b> Д	A	•			
160.		mum Aging time for ice cream				
	(A)	4 hrs	, ,	6 hrs		
	` '	1.30 hrs	(D)	12 hrs		
	(E)	Answer not known				

	(A)	$0^{\circ}\mathrm{F}$	(B)	$0^{\circ}\mathrm{C}$
	(C)	$27.5^{\circ}\mathrm{F}$	(D)	$275^{\circ}\mathrm{C}$
	(E)	Answer not known		
162.	DID	F stands for		
	(A)	Dairy processing and Infrastr	uctu	re Development Fund
	(B)	Dairy products and Innovation	n in	Dairy Fund
	(C)	Dairy processing and Innovat	ion I	Development Fund
	(D)	Dairy products and Infrastruc	cture	Development Fund
	(E)	Answer not known		
163.	Ope	ration flood phase-I was suppor	rted l	ру
	(A)	EEC	(B)	EEG
	(C)	AICTE	(D)	ICAR
	(E)	Answer not known		
164.	Per	capita availability of milk in Ta	mil	Nadu during 2021-22 is
	(A)	270 grams	(B)	362 grams
	(C)	278 grams	(D)	944 grams
	(E)	Answer not known		
165.	The	fat percent of Toned Milk is		
	(A)	4.5	(B)	1.5
	(C)	3.0	(D)	3.5
	(E)	Answer not known		

161. Freezing point of ice cream

166	NE	$d\mathbf{U}$	Stan	ah	for
TOO.	$\perp$ N $\perp$	עע	Duan	av.	TOT

- (A) National Policy for Dairy Development
- (B) Nutritional Policy for Dairy Development
- (C) National Programme for Dairy Development
- (D) Nutritional Programme for Dairy Development
- (E) Answer not known
- 167. Which one of the following is a constituent of fat globular membrane?
  - (A) Phospholipids

- (B)  $\alpha$  Lactalbumin
- (C)  $\beta$  Lactoglobulin
- (D) Vitamin C
- (E) Answer not known
- 168. Lysozyme content of Buffalo milk is
  - (A) 0.4 gm/100 ml

(B) 15.2 mg/100 ml

(C) 6.3 mg/100 ml

- (D) 20.0 gm/100 ml
- (E) Answer not known
- 169. In reception dock volume of milk is measured in tanker lorry by ring piston using the principle of
  - (A) Rotation from inlet to the outlet
  - (B) Displacement of define volume
  - (C) Magnetic inductive flow meter
  - (D) Lobe piston contour
  - (E) Answer not known

170.	Lacto	operoxidative enzyme is an		
	(A)	Fat splitting	(B)	Oxido reductase
	(C)	Lactose splitting	(D)	Protein splitting
	(E)	Answer not known		
171.	Larg	e quantities of milk can be chil	led d	continuously by
	(A)	can immersion		
	(B)	shell and tube heat exchanger	•	
	(C)	plate chiller		
	(D)	scraped surface heat exchange	er	
	(E)	Answer not known		
172.	In fi	resh milk diameters of fat ş	globu	ule — $\mu$ m are
	suffic	cient to avoid creaming.		
	(A)	$1.0$ - $1.5 \mu m (micron)$	(B)	$2.0$ - $2.5 \mu m (micron)$
	(C)	$3.0-4.0 \mu \text{ m (micron)}$	(D)	$0.1$ - $0.5 \mu m (micron)$
	(E)	Answer not known		
173.	In s	sterilization process milk te	empe	erature should not exceed
		°C.	•	
	(A)	$115^{\circ}\mathrm{C}$	(B)	$72^{\rm o}{ m C}$
	(C)	120°C	(D)	$125^{\circ}\mathrm{C}$
	(E)	Answer not known		

174.	Hom	Homogenization is carried out in cheese milk to inhibit						
	(A)	Whitening	(B) Fat sweating/leakage					
	(C)	Buttering	(D) Creaming					
	(E)	Answer not known						
175	The	organism are t	ested during sterilization test to					
170.		rmine its letrolity.	ested during stermization test to					
	(A)	Streptococcus aureus	(B) S. lactis					
	(C)	Clostridium botulinum	(D) E.Coli					
	(E)	Answer not known						
176.	In hi	gh pressure homogenization pr	essure used is ———— bar.					
	(A)	1000-2000 bar	(B) 1500-2500 bar					
	, ,	100-350 bar	(D) 5-30 bar					
	(E)	Answer not known						
177.	is the optimal for UHT cream to avoid fat plug in the							
	container.							
	(A)	Double stage homogenization						
	(B)	Single stage homogenization						
	(C)	Up stream homogenization						
	(D)	Down stream homogenization						
	(E)	Answer not known						
178.		— flavour defect found in	butter stored insufficiently low					
	temp	perature for long period.						
	(A)	Rancid	(B) Flat					
	(C)	Cheese	(D) Stale					
	(E)	Answer not known						

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179.	In bo	ottle sterilization temperature f	or m	ıılk ıs
	(A) (C)	135-150°C/fraction of seconds 108-111°C/25-30 min	` ,	72°C/15 sec 63°C/30 min
	(E)		(D)	
180.	Offic	ial test for sterilized milk is		
	(A)	Phosphatase test	(B)	Turbity test
	(C)	_	` ,	COB test
	(E)	Answer not known	` '	
181.		ose level in cow and human mectively.	ilk a	are ————————————————————————————————————
	(A)	4.8% and 6.8%	(B)	6.3% and 4.7%
	(C)	3.0% and 4.0%	(D)	3.5% and 4.5%
	(E)	Answer not known		
182.		nical compound used to evalua products is	ate t	he heat damage of milk and
	(A)	Melanoidin	(B)	Ketiminers
	(C)	Furosine	(D)	Aldimines
	(E)	Answer not known		
183.	the l	best available means for follo		
	(A)	2-thiobarbituric acid value	(B)	Peroxide value
	(C)	Free fatty acid value	(D)	Malonic dialdehyde
	(E)	Answer not known		

- 184. Dry milk fat is better reserved for the lipid material recovered from dry milk, whereas anhydrous milk fat should be used in describing the lipid material recovered from
  - (A) Butter
  - (B) Classified milk fat
  - (C) Fresh fluid milk (or cream)
  - (D) Homogenized pasteurized milk
  - (E) Answer not known
- 185. Which among the following is true in fat content of bouine milk?
  - (i) Fat content increases during the first 4-6 weeks after pasturization
  - (ii) Successive lactation increases fat content
  - (iii) Concentration of fat decreases on mastitic infection
  - (A) (i) only

(B) (i) and (ii) only

(C) (iii) only

- (D) (ii) only
- (E) Answer not known
- 186. Acid degree value indicates
  - (A) Extend of lipolysis
  - (B) Extend of proteolysis
  - (C) Extend unsaturation
  - (D) Extend of unsaponificable matter
  - (E) Answer not known

The hydroxy acid which is responsible for the flavour of butter and ghee is			
(A)	Lactones	(B) Ketones	
(C)	Butyric acid	(D) Palmitic acid	
(E)	Answer not known		
. The normal milk contains sufficient catalase to liberate ————————————————————————————————————			
(A)	1 to 5	(B) 5 to 20	
(C)	20 to 28	(D) 29 to 35	
(E)	Answer not known		
Choo	ese the correct answer.		
(1)	Fresh milk is exposed to day loss occurs	light for 8 hrs, 2% of vitamin A	
(2)	10% vitamin A loss occurs at s	toring using amber-glass bottles	
(3)	X-ray do not cause vitamin A	loss	
(A)	(1) and (2) only correct		
(B)	(2) and (3) only correct		
(C)	(1), (2), (3) are correct		
(D)	(3) only correct		
(E)	Answer not known		
	_	zyme is responsible for lactic	
(A)	Lipase	(B) Protease	
(C)	Perodidase	(D) Lactase	
(E)	Answer not known		
	ghee (A) (C) (E)  The ml. of (A) (C) (E)  Chool (1) (2) (3) (A) (B) (C) (D) (E)  Which ferm (A) (C)	ghee is  (A) Lactones (C) Butyric acid (E) Answer not known  The normal milk contains sufficient ml. of oxygen per 100 ml of milk in 20 ml of milk in 20 ml of 20 to 28 (E) Answer not known  Choose the correct answer. (1) Fresh milk is exposed to day loss occurs (2) 10% vitamin A loss occurs at second in 20 ml of 20 m	

191.	Antisterility vitamin is							
	(A)	Vitamin – A	(B)	Vitamin – E				
	(C)	Vitamin – C	(D)	Vitamin-K				
	(E)	Answer not known						
192.	The	principal antibody present in th	ne se	erum is				
	(A)	Immunoglobulin G	(B)	Immunoglobulin M				
	(C)	Immunoglobulin A	(D)	Immunoglobulin D				
	(E)	Answer not known						
193.	The	sugar present in casein protein	is					
	(A)	Imino acid	(B)	Sialic acid				
	(C)	Keto acid	(D)	Lactic acid				
	(E)	Answer not known						
194.	Com	monly used method for phenoty	ping	g of the milk protein is				
	(A)	Zonal electrophoresis						
	(B)	Chromatographic method						
	(C)	Differential solubility method						
	(D)	Titration method						
	(E)	Answer not known						

195.	Class	Classification of $\boldsymbol{\alpha}$ - lactal bumin is based on the following parameter					
	(i)	Solubility					
	(ii)	Stability					
	(iii)	Primary sequence of the amino acids in their poly peptide chains					
	(A)	(i) only (B) (ii) only					
	(C)	(iii) only (D) (i) and (ii) only					
	(E)	Answer not known					
196.	'unde	ng the milk proteins, the ———————————————————————————————————					
	(A)	Whey proteins					
	(B)	Proteose – peptone fractions					
	(C)	Caseins					
	(D)	Kappa casein					
	(E)	Answer not known					
197.		ese the right answer from the following in relation mineral ent and stage of lactation					
	(i)	Calcium content in milk is high both in early and late lactation					
	(ii)	Sodium and chloride in milk is high in late lactation					
	(iii)	Concentration of potassium increases throughout the lactatia					
	(A)	(i) only (B) (i) and (ii) only					
	(C)	(ii) only (D) (iii) only					
	(E)	Answer not known					

198.	Choose the right answer in relation to effect of freezing on salt content of milk					
	(i)	Crystallisation of pure water				
	(ii)	Unfrozen liquid becomes more saturated				
	(iii)	Crystalisation of pure water and more saturated with salts				
	(A)	(i) only	(B)	(ii) only		
	(C)	(i) and (ii) only	(D)	(iii) only		
	(E)	Answer not known				
199.	Water content of cow milk is					
	(A)	87.54 percent	(B)	64.00 percent		
	(C)	85.54 percent	(D)	80.01 percent		
	(E)	Answer not known				
200.	The average total phosphorus content of ———— mg/100ml is present in milk plasma.					
	(A)	80	(B)	85		
	(C)	90	(D)	95		
	(E)	Answer not known				