1.		quantity of milk used for methylene blue reduction test.					
	(A)	15 ml		(B)	10 ml		
	(C)	5 ml		(D)	1 ml		
	(E)	Answer not kn	own				
2.	The	procedure used	in direct epifluo	resc	cent filter to	echnique is	
	(A)	A) Membrane filtration					
	(B)	Staining					
	(C)	(C) Membrane filtration and staining					
	(D)	Sequencing and staining					
	(E)	Answer not kn	own				
3.		Select the limitation of methylene blue reduction test among the following					
	(A)	Some organism	ns fail to grow or	n nu	utrient agar	<b>1</b>	
	(B)	(B) Single colony cannot be seen in nutrient agar					
	(C)	Test becomes accurate when reduction time is increased					
	(D)	Rate of decolourization of stain is same for all organisms					
	(E)	Answer not kn	own				
4.	The	class four milk	of methylene blu	ie re	eduction tes	st is inferred a	ıs
	(A)	Good milk		(B)	Poor milk		
	(C)	Fair milk		` ′	Excellent	milk	
	(E)	Answer not kn	own	. ,			
	` '						

5.	The acceptable limit of coliforms for pasteurized milk is					
	(A)	<1	(B) <10			
	(C)	<100	(D) $<$ 500			
	(E)	Answer not known				
6.	The	acceptance limit of fa	ecal type of coliforms in butter is			
	(A)	1 in 1 g	(B) $5 g^{-1}$			
	(C)	Absent in 1 g	(D) $100  \mathrm{g}^{-1}$			
	(E)	Answer not known				
7.	The	The dilution of milk used in spread plate method is				
	(A)	1:2	(B) 1:5			
	(C)	1:8	(D) 1:10			
	(E)	Answer not known				
8.	The test is used to identify the redox potential of milk.					
	(A)	Reductase	(B) Coagulase			
	(C)	Catalase	(D) Phosphatase			
	(E)	Answer not known				
9.	A bi	tter taste in the crear	n after spoiling is connected with			
	(A)	Proteolysis of Rhodotorula mucilaginosa				
	(B)	Proteolysis of Candida albicans				
	(C)	Proteolysis of Lacto	coccus lactis			
	(D)	Proteolysis of Bifide	bacterium sps.			
	(E)	Answer not known				

10.		ing staining, the internal and served by	external structure of bacteria is
	(A)	Heat fixation	(B) Washing
	(C)	Wax sectioning	(D) Labelling
	(E)	Answer not known	
11.		roorganisms often can be st sfactorily by	ained using a single dye very
	(A)	Gram's staining	(B) Acid fast and staining
	(C)	Spore staining	(D) Simple staining
	(E)	Answer not known	
12.		is used as a counter sta	in in Gram's staining.
	(A)	Crystal violet	(B) Gram's Iodine
	(C)	Silver nitrate	(D) Safranin
	(E)	Answer not known	
13.	Sele	ect from below the spore formin	g bacteria
	(A)	E-coli	(B) S. typhi
	(C)	B. cereus	(D) V. cholerae
	(E)	Answer not known	
14.		is the function of a bact	erial flagella.
	(A)	Conjugation	(B) Locomotron
	(C)	Energy producers	(D) Transport channel
	(E)	Answer not known	<del>-</del>

	(A)	Gram positive anaerobic rods	
	(B)	Gram positive anaerobic cocci	i
	(C)	Gram positive aerobic rods	
	(D)	Gram positive aerobic cocci	
	(E)	Answer not known	
16.		most common microorganism tese is	responsible for spoilage of cottage
	(A)	Pseudomonas sps.	(B) Candida sps.
	(C)	Salmonella sps.	(D) Bacillus sps.
	(E)	Answer not known	
17.	Myo	bacterium tuberculosis is a (an	)
	(A)	Spore forming bacilli	(B) Acid fast bacilli
	(C)	Toxin forming bacilli	(D) Capsulated bacilli
	(E)	Answer not known	
18.		organism is used for	aroma and acid productions in
	diar	y industry.	
	(A)	Lactobacillus acidophilus	(B) Bifidobacterium sps
	(C)	Lactococcus lactis	(D) Lactobacillus bulgaricus
	(E)	Answer not known	

Bifidobacterium Sps. are

15.

19.	Selection	ct the following criteria that is eria	not	used in the classification of
	(A)	Shape	(B)	Size
	(C)	Arrangements	(D)	Cellular organelles
	(E)	Answer not known		
20.	An e	xample for a gram positive bact	teria	is
	(A)	S. pyogenes	(B)	E.coli
	(C)	V. cholerae	(D)	Neisseria Sps.
	(E)	Answer not known		
21.		gives a fruity flavour to	the 1	milk.
	(A)	Pseudomonas aeruginosa	(B)	Pseudomonas putida
	(C)	Pseudomonas fragi	(D)	Pseudomonas synxantha
	(E)	Answer not known		
22.		sterilization method that is alation loop is	wid	ely used for sterilizing an
	(A)	Flaming	(B)	Autoclave
	(C)	Incineration	(D)	Hot air oven
	(E)	Answer not known		
23.		unit that is used to measu rifuge is	re s	sedimentation velocity in a
	(A)	nm	(B)	m
	(C)	4g	(D)	s
	(E)	Answer not known		

	is used to produce colou	r at the end of ELISA.
(A)	Chromogen substrate	(B) Horeradish peroxidase
(C)	Sulphuric acid	(D) Hydrogen peroxide
(E)	Answer not known	
The	PCR technique is used to detec	et
(A)	Antigen	(B) Antibody
(C)	Nucleic acids	(D) Protein
(E)	Answer not known	
	is a most commor	n disinfectant used in the dairy
indu	istry.	
(A)	Chlorine	(B) Bromide
(C)	Ethanol	(D) Isopropanol
(E)	Answer not known	
	———— are used to sterilize	biological safety cabinets.
(A)	Infra red rays	(B) Gamma rays
(C)	X-rays	(D) UV-rays
(E)	Answer not known	
	organism that is used as oclaving is	a sterilization control agent in
(A)	Clostridium tetani	(B) Pseudomonas aeruginosa
(C)	Bacillus stearothermophilus	(D) Bacillus subtilis
(E)	Answer not known	

29.		———— is important to ex	amine the object in an electron
	micr	roscope.	
	(A)	Air	(B) Vacuum
	(C)	Water	(D) Gas
	(E)	Answer not known	
30.		organism survive	e in the holder method of
	past	eurization.	
	(A)	E.Coli	(B) S. aureus
	(C)	C. burnetti	(D) S. typhi
	(E)	Answer not known	
31.	The cont	best sterilization method aminated cloths and pathologic	that is used for destroying
	(A)	Hot air oven usage	(B) Autoclaving
	(C)	Incineration	(D) Radiation treatment
	(E)	Answer not known	
32.	or m	is defined as the properties is defined as the properties.	ocess by which an article, surface rganisms.
	(A)	Disinfection	(B) Sterilization
	(C)	Radiation	(D) Filteration
	(E)	Answer not known	

33.	The	typhoid bacilli that are hours.	exposed to sun will be killed in
	(A)	$0.5~\mathrm{hr}$	(B) 1 hr
	(C)	2 hr	(D) 3 hr
	(E)	Answer not known	
34.		version of liquid milk to eria is termed as	viscous material by contaminating
	(A)	Fermentation	(B) Ropy fermentation
	(C)	Proteolysis	(D) Lipolysis
	(E)	Answer not known	
35.	in m		ating bacteria that initiates lipolysis
	(A)	B. subtilis	(B) P. fluorescens
	(C)	E. aerogenes	(D) C. butyricum
	(E)	Answer not known	
36.	An e	xample for a thermophilic l	bacteria in the dairy industry is
	(A)	Pseudomonas sps	
	(B)	Acinetobacter sps	
	(C)	Achromobacter sps	
	(D)	Bacillus stearothermophil	us
	(E)	Answer not known	

37.		———is example for an	enriched medium.			
	(A)	Blood Agar	(B) MacConkey Agar			
	(C)	Nutrient Agar	(D) XLD Agar			
	(E)	Answer not known				
38.	The milk	_	rganisms are resistant to heat	in		
	(A)	Gram Positive cocci	(B) Gram Negative cocci			
	(C)	Gram Positive bacilli	(D) Gram Negative bacilli			
	(E)	Answer not known				
39.		——————————————————————————————————————				
	(A)	L. Caesi	(B) C. butyricum			
	(C)	S. cremoris	(D) B. subtilis			
	(E)	Answer not known				
40.		is the major a	cid forming bacteria in the da	iry		
	(A)		(B) Clostridium sps			
	(C)	Bacillus sps	(D) Lactobacillus sps			
	(E)	Answer not known	( )			
41.	Wha	at should you do in case of a	fire in the laboratory?			
	(A)	Panic	(B) Ignore the fire			
	(C)	Use the fire extinguisher	(D) Run away			
	(E)	Answer not known				

42.	Which one of the following is not a chemical burn?					
	(A)	Acid burn	(B)	Alkali burn		
	(C)	Radiation burn	(D)	Bromine burn		
	(E)	Answer not known				
43.	in a You	You have read about the hazards of the chemicals you will be using in a particular lab and found out that they are mild health hazards. You should avoid skin contact and vapour inhalation. In lab, you should				
	(A)	(A) Wear shorts and sandals				
	(B)					
	(C) Wear gloves, long pants, closed toe shoes					
	(D)	Wear sandals				
	(E)	Answer not known				
44.	The ABC of Life support are					
	(A)	(A) Airway, Breathing, Circulation				
	(B)	(B) Airway, Bridge, Canal				
	(C)	(C) Action, Breathing, Circulation				
	(D)	(D) None of the above				
	(E)	Answer not known				
45.	The with		safe laborator	ry environment for all begins		
	(A)	Prevention	(B)	Microbiology		
	(C)	Ubiquity	(D)	Accidents		
	(E)	Answer not known				

46.	After completing an experiment, all chemical wastes should be					
	(A)	Left at your lab station fo	r the next class			
	(B)	Disposed according to the instructions				
	(C)	Dumped in the sink				
	(D)	Taken into home				
	(E)	Answer not known				
47.	The	two factors determining "fo	od security" in India are :			
	(A)	Green revolution and reduced wastage of food				
	(B)	Production of sufficient food and nutritional value of food				
	(C)	Sustainable agriculture and minimal use of agrochemicals				
	(D)	Availability and accessibility				
	(E)	Answer not known				
48.	Which of the following is a terrestrial disaster?					
	(A)	Landslide	(B) Cyclone			
	(C)	Hailstorm	(D) None of the above			
	(E)	Answer not known				
49.		which year did a thousand ick Gujarat?	people die in the earthquake that			
	(A)	2000	(B) 2001			
	(C)	2002	(D) 2004			
	(E)	Answer not known				

50.	Which of the following c	hemical is stored in kerosene?
	(A) D: (1 1 (1	(D) D

(A) Diethyl ether

(B) Benzene

(C) Acetone

(D) Potassium

(E) Answer not known

51. The floating of sludge is called as

(A) Bulking

(B) Mulcing

(C) Sulking

(D) Trebling

(E) Answer not known

52. The post exposure prophylaxis for Hepatitis B is not recommended if

- (A) The exposed person is completely vaccinated and antibody titer is ≥ 10 m/u/mL
- (B) The exposed person is incompletely vaccinate and antibody titer is  $\leq 10 \text{ m/u/mL}$
- (C) The exposed person is completely vaccinated and antibody titer is  $\geq 1 \text{ m/u/mL}$
- (D) The exposed person is completely vaccinated and antibody titer is  $\geq 5 \text{ m/u/mL}$
- (E) Answer not known

53.	The first aid management of occupational exposure includes all of the following except						
	(A)	Irrigate the splash injury site vigorously with water					
	(B)	Spit out fluid gone into mout	th and rinse mouth several times				
	(C)	Do not use antiseptics and d	etergents over the exposed area				
	(D)	In eye splash, remove contact lenses immediately and wash with water					
	(E)	Answer not known					
54.	The concentration of hypochlorite to be used for spill management is						
	(A)	0.005% for small spills	(B) 0.01% for small spills				
	(C)	0.5% for large spills	(D) 0.1% for large spills				
	(E)	Answer not known					
55.	In waste management, ————————————————————————————————————						
	(A)	Lagoon	(B) Trickling filter				
	(C)	Both (A) and (B)	(D) None of the above				
	(E)	Answer not known					
56.	For	the cultivation of mycelial are used.	forms and other fungal forms,				
	(A)	Organic wastes	(B) Inorganic wastes				
	(C)	Protein supplements	(D) Enrichment powders				
	(E)	Answer not known					

57.		recent bioned in	medical	waste	manage	ement	rules	of	India	were
	(A)	2008			(B)	2011				
	(C)	2016			(D)	2014				
	(E)	Answer no	t known							
58.	The	depth of the	pit dug	for dee	p burial i	metho	d shou	ld b	e abou	ıt
	(A)	5 meters			(B)	20 me	ters			
	(C)	2 feet			(D)	2 met	ers			
	(E)	Answer no	t known							
59.	A puncture-proof container is necessary for									
	(A)	Animal waste								
	(B)	Human anatomical waste								
	(C)	Waste sharps								
	(D)	Cytotoxic drugs								
	(E)	Answer not known								
60.	Asse	ertion [A] :	Sharps	are sul	bjected to	o mech	anical	shr	edding	g.
	Reas	Reason [R]: Shredders are connected to sealed incinerators.					rs.			
	(A)	Both [A] and [R] are true and [R] is the correct explanation of [A]								
	(B)	[A] is true	[R] is fa	lse						
	(C)	Both [A] and [R] are true but [R] is not the correct explanation of [A]								
	(D)	Both [A] and [R] are false								
	(E)	Answer not known								

61.	Multiplication of bacteria in milk						
	(A)	Leads to fall in pH					
	(B)	Does not alter pH					
	(C)	Increase the pH					
	(D)	Initially increase the pH and	then	decrease			
	(E)	Answer not known					
62.		One of the following easiest and earliest methods of preventing milk from spoiling					
	(A)	Homogenising	(B)	Boiling			
	(C)	Cooling	(D)	Pasteurization			
	(E)	Answer not known					
63.	The main constituent of milk lipids contains the following						
	(A)	Sterols	(B)	Triacylglycerol			
	(C)	Phospholipids	(D)	Esters			
	(E)	Answer not known					
64.	Most important chemical test on receival of milk is one of the following						
	(A)	Total water content	(B)	Developed acidity			
	(C)	Developed sugar content	(D)	Viscosity			
	(E)	Answer not known					
65.	The	The odour of the milk is one of the following property					
	(A)	Chemical property	(B)	Microbiological property			
	(C)	Physical property	(D)	Organoleptic property			
	(E)	Answer not known					

66.	Addition of 2 drops of 2% freshly prepared acqueous solution of paraphenyl diamine hydrochloride to adulterated milk gives intense blue colour indicating the presence of					
	(A)	Hydrogen peroxide	(B)	Boric acid		
	(C)	Formalin	(D)	Urea		
	(E)	Answer not known				
67.	Wha	at is the pH of fresh cow m	ilk at 28°0	C?		
	(A)	6.5 - 7.5	(B)	6.5 - 6.7		
	(C)	4.5 - 5.5	(D)	6.0 - 7.0		
	(E)	Answer not known				
68.	The chalky flavour defect in milk is due to ————— aggregation or loss of its solubility.					
	(A)	Lipid	(B)	Carbohydrate		
	(C)	Protein	(D)	Minerals		
	(E)	Answer not known				
69.	The intensity of the white colour of milk is directly proportional to the following					
	(A)	The amount of pigments	in the mil	lk		
	(B)	Amount of lactic acid in				
	(C)	Size and number of part	icles in sus	spension		
	(D)	Viscosity and density of	suspensio	n		
	(E)	Answer not known	-			

70.	Which one of the following is an organoleptic properties?					
	(A)	Taste and aroma	(B) Colour and flavour			
	(C)	Appearance and odour	(D) All of the above			
	(E)	Answer not known				
71.		During enzymatic method to study lactose in milk, $\beta$ -galactose is oxidized further by ———————————————————————————————————				
	(A)	NAD to galactonic acid; $\beta$ -galactose dehydrogenase				
	(B)	NADH to galactonic acid; $\beta$ -galactose dehydrogenase				
	(C)	NADPH $_2$ to acetic acid; $\beta$ -galactose dehydrogenase				
	(D)	FAD to galactonic acid; $\beta$ -galactose dehydrogenase				
	(E)	Answer not known				
72.	Gerber test is used to determine					
	(A)	Protein percent in milk	(B) Fat percent in milk			
	(C)	SNF percent in milk	(D) Acidity of milk			
	(E)	Answer not known				
<b>7</b> 3.	The procedure involves determining the weight of in milk.					
	(A)	Rose-Gottlieb	(B) UV-visible method			
	(C)	Crystallographic	(D) Electrochemical			
	(E)	Answer not known				

74.		lactometer is read in increases fall within the range of 24-		— units and		
	(A)	0.2  or  0.5	(B) 0.1			
	(C)	0.3	(D) 0.01			
	(E)	Answer not known				
75.	In a	utomated method, the % total	solids = $a + \%$ fat +?	+?		
	(A)	% Protein + % Lactose	(B) % Protein + % (	Calcium		
	(C)	% Protein + % Vitamin A	(D) % Protein + %	Vitamin D		
	(E)	Answer not known				
76.	In the enzymatic test used for determination of pasteurization efficiency in milk ————————————————————————————————————					
	(A)	Lactase	(B) Alkaline phosp	hatase		
	(C)	α-amylase	(D) Rennet			
	(E)	Answer not known				
77.		lification of lactose by heating	of milk affects one of	the following		
	(A)	Alter pH and free calcium ac	etivity			
	(B)	Alter the viscosity				
	(C)	Change in titratable acidity				
	(D)	Alter the water content				
	(E)	Answer not known				

78.	Which one of the following is used to calculate the percentage of total solids of milk?						
	(A)	% SNF + % Protein	(B)	% SNF + % Carbohydrate			
	(C)	% SNF + % Fat	(D)	% SNF + % Minerals			
	(E)	Answer not known					
79.	Roese-Gottlieb extraction method is used to find out the following composition of milk						
	(A)	Fat content	(B)	SNF content			
	(C)	Total solid content	(D)	Lactic acid content			
	(E)	Answer not known					
80.	Which one of the following is not a gravimetric extraction of milk fat analysis?						
	(A)	Gerber method	(B)	Roese-Gottlieb method			
	(C)	Mojonnier method	(D)	Weibull-Berntrop method			
	(E)	Answer not known					
81.	Wha	t is the value of absolute zero t	emp	erature in Fahrenheit?			
	(A)	$-273.15^{\circ}\mathrm{F}$	(B)	0°F			
	(C)	$-459.67^{\circ}\mathrm{F}$	(D)	100°F			
	(E)	Answer not known					
82.		parts of calcium carbonate s	equiv	valent hardness per million			
	(A)	Milligrams per litre	(B)	Milliequivalent per litre			
	(C)	Parts per million	(D)	Degree French			
	(E)	Answer not known					

83.	When 10 g of sucrose is dissolved in 90 g of water, then the mass percentage of solution is					
	(A)	5 %	(B) 10 %			
	(C)	90 %	(D) 100 %			
	(E)	Answer not known				
84.	How	v many millimeters are there in	n 35.52 m?			
	(A)	$3.552  imes 10^2 \  ext{mm}$	(B) $3.552 \times 10^4 \text{ mm}$			
	(C)	$3.552  imes 10^3 \ \mathrm{mm}$	(D) 3.552 mm			
	(E)	Answer not known				
85.	How many Joules is equal to one calorie?					
	(A)	4.184	(B) 1000			
	(C)	2.39	(D) 273.15			
	(E)	Answer not known				
86.	Calculate the volume of 12 MHCl needed to prepare 24 L of 0.5 NHCl solution.					
	(A)	$24~\mathrm{L}$	(B) 12 L			
	(C)	1.0 L	(D) 2.0 L			
	(E)	Answer not known				

- 87. Equivalence point in titration is
  - (A) A stage in titration at which the amount of the reagent added is exactly and stoichimetrically equivalent to the amount of reacting substance in the analyte
  - (B) Point of completion of reaction which is visible by a colour change
  - (C) Starting point of a reaction
  - (D) End point of a reaction
  - (E) Answer not known
- 88.  $1 \, \text{A}^{\circ}$  is equal to

(A)  $1 \times 10^{-7} \text{ m}$ 

(B)  $1 \times 10^{-8} \text{ m}$ 

(C)  $1 \times 10^{-9} \text{ m}$ 

(D)  $1 \times 10^{-10} \text{ m}$ 

- (E) Answer not known
- 89. Calculate the molar concentration of 10 ppm solution of NaOH. Molecular weight of NaOH is 40.

(A)  $2.5 \times 10^{-4} \,\mathrm{M}$ 

(B) 2.5 M

(C) 10 M

(D) 1.0 M

- (E) Answer not known
- 90. The freezing point and boiling point of water at one atmospheric pressure in Fahrenheit scale is

(A)  $0^{\circ}$ F and  $100^{\circ}$ F

(B) 273°F and 373°F

(C) 32°F and 212°F

(D) 48°F and 240°F

(E) Answer not known

- 91. How much  $K_2Cr_2O_7$  would you weigh to prepare 250 ml of  $N_{20}$  acidic solution? (Equivalent weight of  $K_2Cr_2O_7$  is 49)
  - (A) 3.675 g

(B) 0.6125 g

(C) 6.125 g

(D) 36.75 g

- (E) Answer not known
- 92. Find the molarity of 2.48 N Mg(OH)<sub>2</sub> solution.
  - (A) 2.48 M

(B) 1.24 M

(C) 0.8271 M

(D) 7.44 M

- (E) Answer not known
- 93. What fractions are indicated by deci and femto?
  - (A)  $10^{-1}$  and  $10^{-15}$

(B)  $10^{-2}$  and  $10^{-15}$ 

(C)  $10^{-2}$  and  $10^{-12}$ 

- (D)  $10^{-1}$  and  $10^{-12}$
- (E) Answer not known
- 94. The non-SI unit of mass, one unified atomic mass unit is equal to
  - (A) 1.0 kg

(B)  $1.66 \times 10^{-27} \text{ kg}$ 

(C)  $1.66 \times 10^{-31} \text{ kg}$ 

- (D)  $12.0 \times 10^{-3} \text{ kg}$
- (E) Answer not known

95.	If 2	$5.3~\mathrm{cm^3}$ of $rac{\mathrm{N}}{20}\mathrm{H_2SO_4}$ is neutr	raliz	ed with $20~{ m cm}^3$ solution of		
	sodi	um carbonate, calculate the tion.				
	(A)	0.6633 N	(B)	0.0632 N		
	(C)	0.0395 N	(D)	0.3950 N		
	(E)	Answer not known				
96.	15.8 ml of 0.1 N oxalic acid was consumed by 25.8 ml KMnO <sub>4</sub> at 40°C. Calculate normality of KMnO <sub>4</sub>					
	(A)	0.061 N	(B)	0.106 N		
	(C)	0.10 N	(D)	None of the above		
	(E)	Answer not known				
97.	Wha	at does ppm stand for				
	(A)	parts per million	(B)	percentage per million		
	(C)	parts per metric	(D)	parts percentage of metric		
	(E)	Answer not known				
98.	If 0.25 g of sodium carbonate (equivalent weight = 53) is present in 500 mL of the solution, then the concentration of Na <sub>2</sub> CO <sub>3</sub> solution would be					
	(A)	0.0094 N	(B)	0.09 M		
	(C)	0.0094 M	(D)	0.09 N		
	(E)	Answer not known	• /			

99.	O. The number of gram equivalents of a solute present in one litre solution is known as				
	(A)	Molality	(B) Molarity		
	(C)	•	(D) Mole fraction		
	(E)	Answer not known	(b) Wole fraction		
	(12)	THIS WEI HOU KHOWH			
100.		nL of NaOH neutralises 0.25 Inality and molarity of NaOH?	M $H_2SO_4$ at 22 mL. What is the		
	(A)	0.275 N and 0.55 M	(B) 0.55 N and 1.1 M		
	(C)	$0.55~\mathrm{N}$ and $0.55~\mathrm{M}$	(D) 0.275 N and 0.275 M		
	(E)	Answer not known			
101.	Wha (A) (B) (C)	t is the function of natural milk To supply lipids To supply carbohydrates To supply essential amino acid			
	(D)	To supply vitamins			
	(E)	Answer not known			
102.	Wha	at is the pH at which casein prot	tein precipitates?		
	(A)	7.0	(B) 4.6		
	(C)	3.0	(D) 3.5		
	(E)	Answer not known			
103.	Wha	at is the ratio of casein : Whey p	rotein present in buffalo milk?		
	(A)	80:20	(B) 50:50		
	(C)	60:40	(D) 20: 80		
	(E)	Answer not known			
450-L	450-Lab Technician 26				

	(A)	Lyase	(B)	Phosphatase
	(C)	Cathepsin	(D)	Plasmin
	(E)	Answer not known		
105.		t is the temperature at vosaminidase is active?	whic	h N $-$ acetyl $ eta$ $-$ D $-$
	(A)	25 °C	(B)	40 °C
	(C)	50 °C	(D)	37 °C
	(E)	Answer not known		
106.	Wha	t is the temperature at which S	SOD	in milk is active and stable?
	(A)	40 °C	(B)	50 °C
	(C)	71 °C	(D)	90 °C
	(E)	Answer not known		
107.	Duri	ng storage additional enzymes	are	produced in the milk by
	(A)	Oxidation reaction	(B)	Chemical reaction
	(C)	Micro organisms	(D)	Secretory cells
	(E)	Answer not known		
100	N			ok in the mille
108.		ne the bactericidal substance pr		
	(A)	Lactenins	` ′	Lactic acid
	(C)	Renin	(D)	Lacto Albumin
	(E)	Answer not known		

104. Name the alkaline milk proteinase are present in the milk.

109.	Name the substrate which glucose oxidase catalyses.						
	(A)	Galactose	(B)	Glucose			
	(C)	Lactose	(D)	Fructose			
	(E)	Answer not known					
110.	Milk	and skim milk exhibit ———		- behaviour.			
	(A)	Brownian	(B)	Swarming			
	(C)	Newtonian	(D)	None of the above			
	(E)	Answer not known					
111.	Whic	ch is the pH at which lipase in	milk	is active?			
	(A)	6.2	(B)	5.0			
	(C)	9.2	(D)	7.0			
	(E)	Answer not known					
112.	$\alpha-$ Lactoglobulin is the type of whey protein found in milk. It has major weight contribution. It may be						
	(A)	2-4 g/L	(B)	1-2 g/L			
	(C)	$1\text{-}1.5~\mathrm{g/L}$	(D)	$0.6\text{-}0.8~\mathrm{g/L}$			
	(E)	Answer not known					
113.	Lower levels occur of lactose in Colostrum and Mastitic milk to offset high minerals and maintain						
	(A)	Vitamin balance	(B)	Osmotic balance			
	(C)	Sugar balance	(D)	Option (A) and (B)			
	(E)	Answer not known					

114.	Milk	contains Immunoglobulins (Ig)	select the suitable from the list.
	(A)	Ig - G, $Ig - A$ , $Ig - M$	(B) $Ig - D$ , $Ig - F$ , $Ig - M$
	(C)	Ig - M, $Ig - Z$ , $Ig - Y$	(D) $Ig - A$ , $Ig - V$ , $Ig - M$
	(E)	Answer not known	
115.	The l	pacteria present in milk, when potential in milk.	allowed to propagate lower down
	(A)	Oxidation-reduction	(B) Lipolysis
	(C)	Proteolysis	(D) None of the above
	(E)	Answer not known	
116.	One	of the following is Milk Plasma	defined as mild minus.
	(A)	Milk protein	
	(B)	Milk sugar	
	(C)	Milk fat globules	
	(D)	Milk vitamin and minerals	
	(E)	Answer not known	
117.	Who	le milk is naturally adequate in	ı — vitamins.
	(A)	Vitamin A, Vitamin D	(B) Vitamin E, Vitamin K
	(C)	Vitamin B, Vitamin C	(D) Vitamin E, Vitamin C
	(E)	Answer not known	

- 118. Milk contains lactose. It is otherwise known as
  - (A)  $4-O-\beta-D-galactopyranosyl-D-glucopyranose$
  - (B)  $4-O-\beta-D-glucopyranose-D-galactopyranosyl$
  - (C)  $4-O-\alpha-D-glucopyranose-D-galactopyranosyl$
  - (D)  $4-O-\alpha-D-galactopyranosyl-D-glucopyranose$
  - (E) Answer not known
- 119. Lipolysis decreases surface tension due to release of surface active
  - (A) Free fatty acids

(B) Proteins

(C) Glycolipids

- (D) Carbohydrates
- (E) Answer not known
- 120. The peroxide measurement usually not referred or suggested to check the lipid oxidation of milk. The reason is
  - (A) Peroxides are unstable intermediates
  - (B) Peroxides are stable intermediates
  - (C) Peroxides are not found
  - (D) Peroxides produce strong flavour
  - (E) Answer not known
- 121. Pick out the shape of Corynebacterium diptheriae
  - (A) are rods

(B) is club shaped

(C) is a cocci

- (D) is spiral
- (E) Answer not known

122.	. Milk stored below 5 °C will most likely be populated with			pe populated with
	(A)	Pseudomonas species	(B)	Bacillus species
	(C)	Corynebacterium	(D)	Microbacterium
	(E)	Answer not known		
123.	The t	time duration for sterilization o	f mi	lk at>100 °C is
	(A)	2 min	(B)	5 min
	(C)	20-40 min	(D)	10 min
	(E)	Answer not known		
124.	Ferm with	nented milk Kefir is produced	by r	mixing of lactic acid bacteria
	(A)	Pseudomonas	(B)	Non alcoholic mold
	(C)	Alcoholic yeast	(D)	Salmonella
	(E)	Answer not known		
125.	Whic	h serious ailment does the Poli	ovir	us cause all over the world?
	(A)	Mental retardedness	(B)	Brain haemorrhage
	(C)	Paralysis	(D)	Poliomyelitis
	(E)	Answer not known		
126.	In m of	antoux test, patients injected v	vith	a purified protein derivative
	(A)	M. tuberculosis	(B)	B. Pertussis
	(C)	Streptococcus pneumoniae	(D)	Haemophilus influenzae
	(E)	Answer not known		

127.		er culture for the production uced by mixing 600 ml milk wit		different dairy products is
	(A)	2% pure culture	(B)	10% pure culture
	(C)	25% pure culture	(D)	5% pure culture
	(E)	Answer not known		
128.	Nam	e the technique followed ridium spp. present in raw mill		destroy the spores of
	(A)	Cooling	(B)	Stored at -4°C
	(C)	Heating	(D)	Warming
	(E)	Answer not known		
129.		t will be the nature of notococci?	nilk	when contaminated with
	(A)	Acidic	(B)	Neutral
	(C)	Basic	(D)	Alkaline
	(E)	Answer not known		
130.	Whic	ch is the primary host for mycol	oacte	erium bovis?
	(A)	Birds	(B)	Rodents
	(C)	Humans	(D)	Cattle
	(E)	Answer not known		
131.	Wha	t is the source of entry of patho	gen	into milk?
	(A)	Addition of preservatives	(B)	Pasteurization
	(C)	Storage temperature	(D)	Boiling
	(E)	Answer not known		

132.	Whic	h type of ruminal protozoan do	min	ate in young animals?
	(A)	Fibrillar	(B)	Flagellates
	(C)	Ciliates	(D)	Pili
	(E)	Answer not known		
133.	What	t is the causative agent for the	dise	ase anthrax?
	(A)	Clostridium tetani	(B)	Bacillus anthracis
	(C)	Brucella abortus	(D)	Myobacterium abortus
	(E)	Answer not known		
134.	Whic	h part of the body is infected by	y Dij	phtheria?
	(A)	Central nervous system	(B)	Intestine
	(C)	Upper-respiratory tract	(D)	Liver
	(E)	Answer not known		
135.	Nam	e the procedure used to remove	abo	out 99% of spores from milk.
	(A)	Homogenization	(B)	High speed centrifugation
	(C)	Ultra filtration	(D)	Decantation
	(E)	Answer not known		
136.	Nam	e the microorganism which pro	duce	es yellow milk.
	(A)	Pseudomonas syncyanea		
	(B)	Pseudomonas synxantha		
	(C)	Streptococcus lactis		
	(D)	Brevibacterium erythrogenes		
	(E)	Answer not known		

137.	Which cells are destructed in case of polioencephalo malacia:							
	(A)	Central nervous system	(B)	Lungs				
	(C)	Liver	(D)	Intestine				
	(E)	Answer not known						
138.	Nan	ne of the antibiotics for Diphthe	eria.					
	(A)	Penicillin	(B)	Amoxicillin				
	(C)	Ampicillin	(D)	Clarithromycin				
	(E)	Answer not known						
139.	Diptheria toxin is responsible for							
	(A)	Inhibits protein systesis, cell death						
	(B)	Cause severe diarrhea						
	(C)	Cause fever, shock						
	(D)	Cause hemolysis						
	(E)	Answer not known						
140.	One of the following is Q fever transmitted by							
	(A)	by droplets						
	(B)	by infected saliva						
	(C)	by infected blood						
	(D)	dust particles contact with in	fecte	d animals				
	(E)	Answer not known						

141.		kind of details can bescope?	e observed with a scanning electron
	(A)	Surface morphology	(B) Cellular structures
	(C)	Internal composition	(D) Chemical properties
	(E)	Answer not known	

- 142. What is the factor essential for the complete separation of phase in a disc-bowl centrifuge?
  - (A) Equal densities of liquids (B) The thickness of the sludge
  - (C) Temperature of the liquid (D) Speed of the liquid feed
  - (E) Answer not known
- 143. Which type of microscopy is best for examining surface texture of a food sample with higher resolution?
  - (A) Transmission electron microscopy
  - (B) Scanning electron microscopy
  - (C) Polarizing microscopy
  - (D) Confocal microscopy
  - (E) Answer not known
- 144. What is the key feature of instrumental method like NMR in fat analysis?
  - (A) High sensitivity to moisture
  - (B) Destruction of sample during analysis
  - (C) Requirement of complex sample preparation
  - (D) Non destructive measurement
  - (E) Answer not known

145.		ch method for fat analysis in r, commonly used in Europe?	milk is considered simpler and
	(A)	Babcock method	(B) Gerber method
	(C)	Mojonnier method	(D) Soxhlet method
	(E)	Answer not known	
146.		ch technique is used to measure products?	e the solid fat content of lipids in
	(A)	Soxhlet extraction	
	(B)	Nuclear magnetic resonance	
	(C)	Foss-Let method	
	(D)	Infrared spectroscopy	
	(E)	Answer not known	
147.		ne Mojonnier method, what is oles before fat extraction?	s used to neutralize acidic milk
	(A)	Ammonium hydroxide	(B) Sodium chloride
	(C)	Potassium hydroxide	(D) Calcium carbonate
	(E)	Answer not known	
148.	Wha	t is the function of a specific gra	avity bottle?
	(A)	To measure milk fat	
	(B)	To measure milk viscosity	
	(C)	To measure the density of the	liquids
	(D)	To measure liquid acidity	
	(E)	Answer not known	

149.	How are lacto meter readings adjusted for temperature variations?						
	(A)	No adjustment is needed					
	(B)	A correction factor is applied					
	(C)						
	(D)	Readings are always multip	plied by 2				
	(E)	Answer not known					
150.	Wha	at is the purpose of calibratio	n for lactometers?				
	(A)	To adjust for air bubbles					
	(B)	To ensure accuracy in different liquids					
	(C)	To measure pH					
	(D)	To calculate viscosity					
	(E)	Answer not known					
151.	What is the Quevenne lactometer used to determine?						
	(A)	Milk fact content	(B) Acidity of milk				
	(C)	Milk density	(D) Temperature of milk				
	(E)	Answer not known					
152.	The	typical electrode used in pH	meters is				
	(A)	Platinum Electrode	(B) Glass Electrode				
	(C)	Copper Electrode	(D) Silver Electrode				
	(E)	Answer not known					

153.	The following pH meter is of great accuracy and of potentiometer type			
	(A)	Digital	(B)	Null-Detector
	(C)	Modern	(D)	Analog
	(E)	Answer not known		
154.		type of colorimeter, me	easu	res the density of primary
	color			
	(A)	Photometer	(B)	Densitometer
	(C)	Spectrophotometer		Tristimulus meter
	(E)	Answer not known		
155.	Whic	ch micropipette would you choo	se to	measure 550 μl?
	(A)	P 1000 Micropipette	(B)	P 500 Micropipette
	(C)	P 200 Micropipette	` ′	P 10 Micropipette
	(E)	Answer not known		
156.	Whic	ch measuring instrument follow	rs Al	obe's principle?
	(A)	Colorimeter	(B)	Vernier Calipers
	(C)	Micrometers	(D)	Voltameter
	(E)	Answer not known		
157.		dard Glucose (Stock) 500 mg o		
	(A)	$0.5~\mathrm{mg}$	(B)	$0.05~\mathrm{mg}$
	(C)	5.0 mg	(D)	$0.005~\mathrm{mg}$
		Answer not known		

158.	Lam	berte's law states that the in ect to	nten	sity of light decreases with
	(A)	Concentration	(B)	Volume
	(C)	Distance	(D)	Composition
	(E)	Answer not known		
159.		ntists use adevice accuracy	to n	neasure very small volumes
	(A)	Glass Pipette	(B)	Micropipette
	(C)	Injector	(D)	Measuring Jar
	(E)	Answer not known		
160.		ch equipment is used to measu icrobial cultures?	ıre t	he amount of light absorbed
	(A)	Autoclave	(B)	Centrifuge
	(C)	Laminar flowhood	(D)	Spectro photometer
	(E)	Answer not known		
161.	Eye a	and facial pain with vision loss	is a	common symptom of
	(A)	Pulmonary mucormycosis		
	(B)	Rhinocerebral mucormycosis		
	(C)	Cutaneous mucormycosis		
	(D)	Disseminated mucormycosis		
	(E)	Answer not known		

162.	. The distinguishing feature between Rhizopus and Mucor is			
	(A)	Aseptate Hypha	(B)	Hyaline Hypha
	(C)	Rhizoid	(D)	Sporangiospores
	(E)	Answer not known		
163.		percentage of KOH used to scr iratory specimens is	een 1	the presence of aspergillus in
	(A)	10%	(B)	20%
	(C)	30%	(D)	40%
	(E)	Answer not known		
164.		PCB mount, Phialides are arrawing fungi?	inge	d in two rows in which of the
	(A)	Aspergillus Niger	(B)	Aspergillus Fumigatus
	(C)	Aspergillus Glaucus	(D)	Aspergillus Versicolor
	(E)	Answer not known		
165.	In p	ure crystalline form penicillins	are _	nature
	(A)	White in color	(B)	Colorless
	(C)	Blue in colour	(D)	Pale green in colour
	(E)	Answer not known		
166.	Afla	toxin is		
	(A)	A carcinogenic compound for a	rat	
	(B)	A non carcinogenic compound		
	(C)	An insecticide		
	(D)	A pesticide		
	(E)	Answer not known		
450-I	∡ab Te	echnician 40		

167.	Peni	cillium are found to cause		
	(A)	Mycotic Keratitis	(B)	Mucormycosis
	(C)	Aspergillosis	(D)	Shigellosis
	(E)	Answer not known		
168.	Pick	out the used Media for Asperg	illus	
	(A)	Nutrient agar		
	(B)	Sabouraud's dextrose agar		
	(C)	Tryptose agar		
	(D)	Brain heart infusion agar		
	(E)	Answer not known		
169.	The	Decolorizer used in cold method	d of	Acid fast staining is
	(A)	25% Acid	(B)	5% Acid
	(C)	5% Alcohol	(D)	1% Acid Alcohol
	(E)	Answer not known		
170	The	ideal sample for brucella cultur	e is	
1.0.	(A)	Bone Marrow		Blood
	(C)	CSF	` ,	Joint Fluid
	(E)	Answer not known	(D)	Some Plaid
	(11)	THIS WET HOU KHOWH		
171.	Myc	<u>obacterium tuberculosis</u> can su	rvive	e and multiply in
		RBC		Macrophages
	(A) (C)	WBC	, ,	Stem cells
	, ,	Answer not known	(D)	Dieni cens
	(E)	Answer not known		

172.	72. For laboratory diagnosis of Cholera, the specimen of choice is			specimen of choice is
	(A)	Faeces	(B)	Sputum
	(C)	Urine	(D)	Blood
	(E)	Answer not known		
173.	The differences between Gram positive and Gram negative bacteria is shown to reside in the			
	(A)	Cell wall	(B)	Nucleus
	(C)	Cell membrane	(D)	Mesosomes
	(E)	Answer not known		
174.	4. Listeriosis can be treated by			
	(A)	Penicillin, gentamicin	(B)	Aanciclavir
	(C)	Ampicillin	(D)	Nystalin
	(E)	Answer not known		
175.	Salm	onellosis occurs by		
	(A)	Faecal-Oral route		
	(B)	Blood borne infection		
	(C) Air borne mode of transmission			
	(D)	Physical contact		
	(E)	Answer not known		
176.	Мусс	Mycobacterium Tuberculosis is identified by		
	(A)	Robert Koch	(B)	James
	(C)	Franklin	(D)	Victor C Paul
	(E)	Answer not known		

177.	Spherical bacterial cells are					
	(A)	Spirilla	(B)	Cocci		
	(C)	Bacilli	(D)	Spirillum		
	(E)	Answer not known				
178.	One of the following is detected in Coliform tests					
	(A)	Erwinia	(B)	Escherichia		
	(C)	Proteus	(D)	Salmonella		
	(E)	Answer not known				
179.	The principal food vehicle for brucellosis is					
	(A)	Raw milk or cream	(B)	Cooked meat		
	(C)	Pasteurized milk	(D)	Boiled vegetables		
	(E)	Answer not known				
180. Salmone		onellosis an infection by Salmo	nell	a that affects the		
	(A)	Gastrointestinal tract	(B)	Respiratory tract		
	(C)	Nerves	(D)	Pulmonary tract		
	(E)	Answer not known				
181.	If the pest control material is in the gaseous state, it is termed as					
	(A)	Sprays	(B)	Emulsions		
	(C)	Aerosols	(D)	Fumigants		
	(E)	Answer not known				

- 182. Bacillus Sphaericus, a microbial pesticide controls
  - (A) Rust mites

(B) Mosquito

(C) Beetles

(D) Aphids

- (E) Answer not known
- 183. What is DDT?
  - (A) Dichlorodiphenyl trichloroethane
  - (B) Dichlorophenyl trichloroethane
  - (C) Dichloro dibromo trichloromethane
  - (D) Dichloro dioxy trichloromethane
  - (E) Answer not known
- 184. The purpose of calculating the Coefficient Variation (CV) in pipette Calibration is
  - (A) To provide insight into the precision and accuracy of the pipette being calibrated
  - (B) To adjust the calibration setting of the pipette
  - (C) To determine the type of liquid being handled
  - (D) To clean the pipette thoroughly
  - (E) Answer not known
- 185. What is the need for using a burette in Quantitative chemical analysis?
  - (A) To mix two chemicals
  - (B) To maintain safety
  - (C) To measure the volume of a liquid accurately
  - (D) To maintain constant temperature
  - (E) Answer not known

186.	. Which is used to measure different volume of liquids?			me of liquids?	
	(A)	Conical Flasks	(B)	Round Bottom Flask	
	(C)	Graduated Cylinders	(D)	Graduated Pipette	
	(E)	Answer not known			
187.	The	The following apparatus is used in heating process except			
	(A)	Bunsen Burner	(B)	Tripod Stand	
	(C)	Boiling tube	(D)	Test tube Brushes	
	(E)	Answer not known			
188.	The reading shown by the lactometer for the milk adulterated with				
	wate	r			
	(A)	20	(B)	16	
	(C)	0	(D)	35	
	(E)	Answer not known			
100	<b>37</b> 1	( · T31 1 1 1 1 )		41	
189.	Volu	metric Flask are needed to pre	pare	the	
	(A)	Primary Standard Solution			
	(B)	,			
	(C)				
	(D)	None of these above			
	(E)	Answer not known			
190.		The following glassware is used to measure the acidity (on alka of the solutions)			
	(A)	Spectrophotometer	(B)	Gel electrophoresis	
	(C)	pH meter	(D)	Centrifuge	
	(E)	Answer not known			

- 191. Which of the following represents the physical characteristic of water?
  - (A) Chloride

(B) BOD

(C) COD

(D) Turbidity

- (E) Answer not known
- 192. MPN test used to evaluate quality of water. It stands for
  - (A) Myelo Proliferative Neoplasm
  - (B) Most Perfect Number
  - (C) Most Probable Number
  - (D) Most Profitable Number
  - (E) Answer not known
- 193. In Reverse Osmosis, the pressure that is greater than the naturally occurring osmotic Pressure is applied in order to
  - (A) Mineralize water
  - (B) Desalinate water
  - (C) Decompose Organics
  - (D) Push Bacteria Across Membranee
  - (E) Answer not known
- 194. In multiple tube fermentation test, the microbial mediums used to defect water quality are
  - (A) Lactose or laury tryptose broth, Brilliant green lactose bile broth, Endo agar, Nutrient agar
  - (B) Nutrient agar, SS agar, Baird-Parker agar
  - (C) Lactose or Laury tryptose broth, Nutrient broth, Nutrient agar
  - (D) Brilliant green-lactose bile broth, Nutrient broth
  - (E) Answer not known

- 195. During water purification process, the suspended materials and microorganisms are entrapped and settle down. This is known as
  - (A) Coagulation or flocculation
  - (B) Precipitation
  - Sedimentation (C)
  - (D) Accumulation
  - Answer not known (E)
- 196. The alkalinity of water is attributed to the presence of
  - $OH^-$ ,  $CO_3^{2-}$  and  $HCO_3^-$  (B)  $OH^-$ ,  $SO_4^{2-}$  and  $Cl^-$ (A)
  - $HCO_3$ ,  $SO_4$  and  $HCO_3^-$  (D) All the above (C)
  - (E) Answer not known
- 197. The process of removing common salt from water is known as
  - (A) Demineralisation
- (B) Desalination

Dechlorination (C)

- (D) All the above
- Answer not known (E)
- 198. The advantage of detergents over soap is
  - Detergents are soluble in water (A)
  - (B) Detergents could not give much lather
  - Detergent give lather even with hard water (C)
  - (D) Soaps give lather even with hard water
  - Answer not known (E)

199.	The chemical equivent of $CaSO_4$ is		
	(A)	60	(B) 68
	(C)	82	(D) 47.5
	(E)	Answer not known	
200.	. The Hardness that cannot be removed by boiling is called as		
	(A)	Permanent Hardness	
	(B)	Temporary Hardness	
	(C)	Semi temporary Hardness	
	(D)	Semi Permanent Hardness	
	(E)	Answer not known	