California FFA Milk Quality and Dairy Foods CDE 2025 Test Questions

November 2021

1.	The form	of mastitis that is hidden from sight is known as
	a.	Infectious
	b.	Clinical
	C	Acute
	d.	Sub-clinical
2.		y, milk that has been ultra pasteurized must have been heated at or abovedegrees for at
	a.	161ºF for 15 seconds
	b.	180ºF for 10 seconds
	c.	200ºF for 5 seconds
	d.	280ºF for 2 seconds
3.	Whic	ch of the following will best control contagious mastitis?
	a.	Pre-milking teat dip
		Barrier type teat dip
	C	Antibiotic teat dip
	d.	Germicidal teat dip
4.	The_	test is used to detect if milk has been pasteurized properly.
	a.	Lipase
	b.	Coliform
	c.	Standard Plate Count
	d.	Phosphatase
5.	The_	test may be of value in detecting gross carelessness in the production and handling
	_	ilk on the farm.
	a.	Phosphatase
	b. :	Sediment
	C.	Freezing Point
	d.	Acidity
6.	Milk	providesandin approximately the same ratio as found in bone.
	a.	Calcium and magnesium
	b.	Calcium and phosphorus
	C.	Calcium and iron
	d.	Phosphorus and magnesium
7.	A ma	ajor reason the federal government establishes minimal farm milk prices is
	a.	To ensure that all dairymen have a market for milk
	b.	To ensure that all processors have adequate milk for manufacture of butter and cheese
	c. ·	To ensure an adequate supply of pure and wholesome milk for the consumer
	d.	To provide federal control of the production of milk

8.		_percent of the calcium available in the food supply is provided by milk and milk
	products.	
	a. 66%	
	b. 76%	
	c. 86%	
	d. 96%	
9.		ne following directly influence(s) the total supply of milk?
	•	paid milk producers
		acturing plants
		f fat production
	d. Foreign	exports
10.	Specific grav	vity of milk at 60ºF is
	a. 1.022	
	b. 1.032	
	c. 1.033	
	d. 1.042	
11.	The Dairy H	erd Improvement Association is a cooperative which provides
	a. Data or	n breeding quota levels
	b. Milk tes	sting and record keeping program for dairy cows
	c. Minimu	ım prices paid by processors to producers for milk.
	d. Assistar	nce to groups of dairy farmers who collectively market their milk
12.	Farm water	supplies must be protected from surface contamination. Water is usually tested for
	as	s an indicator of possible sewage contamination.
	a. Proteol	ytic bacteria
	b. Lipolyti	c bacteria
	c. Coliforn	n bacteria
	d. Psychot	trophic bacteria
13.	The Internat	tional Dairy Federation (IDF) mission is to promote
	a. Scientif	ic, cultural & economic progress
	b. Agricult	tural, technical & economic progress
	c. Technic	cal, scientific & industrial progress
	d. Scientif	ic, technical & economic progress
14.	If you produ	uce milk in this state, the price you will receive for your milk is a blend of classes,
	components	s, quota, and non-quota values. It is the only state with its own farm milk pricing system
	The state is	
	a. Wiscon	
	b. Texas	
	c. New M	exico
	d. Californ	nia
15.	There are fo	our classes of milk under Federal Orders, and they provide for
		cation according to the relative safety of each class
		nt for milk according to its quality
	•	nt for milk according to its cost of production
		nt for milk according to its end use

16.	What is the most popular type container used for fluid milk? a. Glass b. Paper c. Plastic d. Pouch
17.	What is the most popular size container used for fluid milk? a. Gallon b. Half Gallon c. Quart d. Five quart bulk
18.	 "Cultured" in front of the name of a milk product indicates: a. Product is older and more mature b. Product is highly refined c. Product has appropriate bacteria added to it d. Product has been through a school and is more expensive
19.	a. 97 b. 98 c. 99 d. 100
20.	 By FDA definition of an imitation product, which of the following is NOT true? a. Tastes like the real product it represents b. Has the same nutritional value as the real product it replaces c. Looks like the real product it represents d. Imitation products are not regulated by the FDA
21.	Chemical sanitizers containing are most widely used for sanitizing milking equipment. a. Bromine b. Saline c. Chlorine d. lodine
22.	Milk found in cows with a high somatic cell count would result in a decrease in a. Butterfat b. Whey protein c. Casein d. Trace minerals
23.	Milk is a good supplier of minerals except for a. Magnesium-Iron-Manganese-Copper b. Riboflavin-Magnesium-Lactose-Manganese c. Phosphorus-Copper-Zinc-Calcium d. Potassium-Boron-Iron-Calcium

24.	Water added to milk is detected by checking the	
	a. Acid degree value	
	b. Sediment content	
	c. Titratable acidity	
	d. Freezing point	
25.	Milk with low total solids will produce what off-flavor?	
	a. Flat	
	b. Malty	
	c. Salty	
	d. Acid	
26.	A cryoscopy is an important tool that test forin milk.	
	a. Butterfat	
	b. Antibiotics	
	c. Pesticides	
	d. Added water	
	u. Added water	
27.	Milk is the only source ofin nature.	
	a. Calcium	
	b. Phosphorous	
	c. Lactose	
	d. Fatty acids	
28.	The microbiological standard for Grade A raw milk at the producer farm isbacteria or less po	er
	milliliter of milk.	
	a. 50,000	
	b. 100,000	
	c. 150,000	
	d. 200,000	
29.	The somatic cell count standard for Grade A raw milk isor less per milliliter of milk.	
	a. 500,000	
	b. 750,000	
	c. 1,000,000	
	d. 1,500,00	
30.	Fluid milk contains an average ofpercent solids.	
	a. 9	
	b. 11	
	c. 13	
	d. 15	
31.	cause(s) flavors in milk such as acid, high acid, or sour milk.	
	a. Chemical adulterants	
	b. Microorganisms	
	c. Sediment	
	d. Weeds	

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32.	Aboutof the calcium available in the food supply is provided by milk. a. 65% b. 50% c. 75% d. 95%
33.	Lactobacillus bulgaricus and Streptococcus thermophilus are examples of a. Spoilage bacteria b. Lactic acid producing bacteria c. Odor producing bacteria d. Yeasts and molds
34.	 The decision of a milk hauler to accept or reject milk at the producing farm a. Depends on knowledge of milk quality and ability to smell off odors b. Must always be confirmed by tests for acidity c. Must be made the day before pickup is scheduled d. All of the above
35.	With the exception of, all of the following off flavors of milk are caused by bacteria. a. Bitter b. Malty c. Yeasty d. Salty
36.	The Grade A Pasteurized Milk Ordinance (PMO) specifies requirements for the production of Grade A raw milk for pasteurization and is recommended by a. The Food and Drug Administration b. The Small Business Administration c. The U.S. Department of Agriculture d. The National Committee on Milk
37.	In Federal order markets, milk sold for consumption in fluid form is in a. Class IV b. Class III c. Class II d. Class I
38.	Milk covered by Federal milk marketing orders is a. Grade A b. Grade B c. Grade C d. Grade A, B, C
39.	The largest percentage of the U.S. milk supply is utilized in the production of a. Cream and specialty sales b. Cheese c. Frozen dairy desserts d. Evaporated, condensed and dry products

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40.	By definition, a product labeled "milk" must contain not less thanpercent milk fat. a. 0.5% b. 2.0% c. 3.25% d. correct choice not listed
41.	Federal Definitions and Standards of Identity specify that Whole Milk contain notless than a. 3.00 percent milkfat and 8.25 percent solids-not-fat b. 3.50 percent milkfat and 8.50 percent solids-not-fat c. 3.50 percent milkfat and 8.00 percent solids-not-fat d. 3.25 percent milkfat and 8.25 percent solids-not-fat
42.	Cheddar cheeses sold in the United States, which are not made from pasteurized milk, must be ripened at leastdays. a. 30 b. 60 c. 120 d. 150
43.	The milk in what class receives the highest price in the market? a. Class I b. Class II c. Class III d. Class IV
44.	Flavors of milk may be caused in general by a. Water content of the milk b. Temperature that milk is stored c. Feeds consumed by the cow d. Amount of sunlight the cow receives
45.	The major cause of the salty flavor in milk is a. The large intake of salt by the cow b. Associated with sunlight exposure c. Mastitis d. Bacteria
46.	is a test for rancidity. a. Acid degree value b. Cryoscope c. Disc assay d. Titratable acidity
47.	The four primary taste sensations are a. Bitter, metallic, sour, sweet b. Bitter, salt, sour, sweet c. Metallic, salt, sour, sweet d. Burnt, bitter, salt, sour

48.	Lactose is the principalin milk.
	a. Fat
	b. Protein
	c. Carbohydrate
	d. Mineral
49.	The two most important diseases of cattle transmissible to man through milk are
	a. Tuberculosis and brucellosis
	b. Brucellosis and scarlet fever
	c. Scarlet fever and Q fever
	d. Tuberculosis and anthrax
50.	A consumer found an off-flavor in milk packaged in transparent plastic and exposed to high intensity
50.	fluorescent light. The off-flavor probably was
	a. High acid
	b. Bitter
	c. Oxidized
	d. Rancid (lipolyzed)
51.	Which group of flavors cannot be detected by odor?
J	a. Bitter, salty
	b. High acid, rancid
	c. Feed, garlic/onion
	d. Metallic/oxidized, malty
52.	The components of milk responsible for richness and sweetness, in this order are:
	a. Minerals and lactose
	b. Milk fat and milk sugar
	c. Casein and lactalbumin
	d. Nonfat solids and lactic acid
53.	The California Mastitis Test is done to:
	a. See if a cow has an infection
	b. Check for bacteria in milk
	c. Determine whether mammary glands are inflamed
	d. Check for mastitis-producing bacteria in the bulk milk
54.	Federal regulations state that ice cream must have at leastmilkfat, the single most important
	ingredient,
	a. 4.5%
	b. 8.5%
	c. 10%
	d. 12%
55.	The off flavor most likely to be found in milk that has not been cooled properly is:
	a. Sour
	b. Rancid
	c. Oxidized
	d. Bitter

56.

The Babcock test is a rapid, simple and accurate test for:

	 a. Water in milk b. Titratable acidity c. Fat content d. Nonfat milk solids content
57.	The two dairy product categories that require the highest amount of raw milk from the U.S. supply are: a. Ice cream and fluid milk products b. Fluid milk products and cheese c. Butter and non fat dry milk d. Cheese and ice cream products
58.	A system of fairly distributing payment among producers in a Federal Milk Market is called: a. Pooling b. Take-off, pay-back c. Base-excess pricing d. Seasonal incentive
59.	Milk marketing cooperatives: a. Are not permitted by Federal Orders b. Provide marketing power for dairy farmers c. Control Federal Orders d. Operate only outside Federal Orders
60.	 Each Federal Milk Marketing order is administered by a representative of the: a. Secretary of Agriculture of the U.S. b. Secretary of commerce of the U.S. c. Secretary of Treasury of the U.S. d. Secretary of the U.S. Food and Drug Administration
61.	It takes approximatelylbs. of whole milk to make one pound of whole milk cheddar cheese. a. 5 b. 10 c. 13 d. 22
62.	Federal Milk Marketing Orders are a mechanism for: a. The most economical utilization of milk b. Finding a market for every producer's milk c. Economical transportation of milk d. Market stabilization
63.	For the maximum intake of calcium, one should consume a. Whole Milk b. 2% Milk c. 1% Milk d. Skim Milk

64.	When pasteurizing milk, the minimum that raw milk must be heated to for 15 seconds is
	a. 111° F
	b. 121° F
	c. 161° F
	d. 171° F
65.	It requires approximatelypounds of skim milk to make one pound of nonfat dry milk.
	a. 22
	b. 13
	c. 11
	d. 6
66.	The quantity of milk used to produce 1 pound of buttermilk depends chiefly upon the
	a. Protein content
	b. Solids-non-fat content
	c. Bacteriology content
	d. Milk fat content
67.	The CMT should be read withinseconds.
	a. 40
	b. 30
	c. 20
	d. 10
68.	The application of heat to milk for the purpose of preservation, with the extra benefit of the protection of public health, continues to develop. Innovative methods are now available for processing milk at with only fractions of a second holding times.
	a. Aseptic processing
	b. Ultra high temperatures
	c. Sterilization
	d. High temperature short time
69.	Pasteurization is the process of heating every particle of milk and milk products to the minimum requiredin equipment that is
	properly designed and operated. a. Temperature and length
	b. Time and temperature
	c. Temperature and time
	d. Time and length
70.	The major reason milk from cowstreated with antibiotics must be withheld from the milk supply is because
	a. A large proportion of the human population is sensitive to antibiotics
	b. Antibiotics increase the somatic cell count of milk
	c. Antibiotics cause an off-flavor in milk
	d. Antibiotics kill some of the good bacteria found in milk
71.	When cows have mastitis, the protein content of milk may be higher, but the cheese yield is lower
	because of a decrease inprotein.
	a. Lysine
	b. Casein
	c. Tryptophan
	d. Whey

72.	Besides calcium, milk contains, a mineral that is found in brain tissue, muscles, teeth and bones.
	a. Phosphorous
	b. Iron
	c. Chlorine
	d. Zinc
73.	As with grade A milk,adopts and enforces regulations to control milk used for the manufacturing of milk products.
	a. The federal government b. Each state
	c. The large dairy cooperatives
	d. Each milk marketing orders area
74.	A high acid flavor (sour) in milk is caused by
	a. Growth of bacteria in the milk
	b. Exposure of cows to acid rain
	c. Drinking hard water
	d. Absorption of acid from corn silage
75.	Milk protein containsof the essential amino acids and in appreciable amounts.
	a. 25%
	b. 50%
	c. 75%
	d. 100%
76.	The CMT test results that indicate a somatic cell count of 400,000 to 1,500,000 are
	a. Mixture thickens with slight gelation
	b. Viscous gel forms, mass adheres to paddle
	c. Distinct precipitate forms, but no gel
	d. Slight precipitate forms and tends to disappear
77.	In order to gain bargaining power, milk producers have formedto manufacture milk products
	and market them directly.
	a. Manufacturing coops
	b. Supply coops
	c. Marketing coops
	d. Consumer coops
78.	To reduce the feed flavor in milk to acceptable levels, cows should be removed from offending feeds
	hours before milking.
	a. 1-2
	b. 2-4
	c. 4-6
	d. 6-8
79.	Milk used foris Class I Milk.
	a. Cottage cheese
	b. Ice milk
	c. Provolone cheese
	d. Fluid milk products

80.	A large portion of the population is sensitive to the antibiotic a. Streptomycin b. Penicillin c. Terimyacin d. Ampicillin
81.	is the cause of the rancid flavor in milk. a. Feeding high moisture corn b. Feeding haylage c. Storing milk in the sunlight d. Extreme agitation of raw milk
82.	Whole milk containspercent protein. a. 1.5-2.5 b. 2.5-3.5 c. 3.5-4.0 d. 4.0-4.5
83.	To separate the aqueous and fat in the final stage of the Babcocktest, ais used. a. Hot water bath b. Centrifuge c. Sulfuric acid bath d. Colloidal component
84.	 Which of the following is not an objective of milk evaluation? a. Determining the presence of desirable characteristics b. Determining one brand of milk from another c. Determining whether one sample differs from another d. Determining presence and magnitude of undesirable characteristics
85.	Milk, including skimmed used in fluid milk products, is Classand receives the highest price. a. I_ b. II c. III d. IV
86.	One gallon of milk weighspounds. a. 8.8 b. 8.2 c. 8.4 d. 8.6
87.	Federal milk marketing orders were established in a. 1917 b. 1927 c. 1937 d. 1947
88.	To add mold to the blue cheese, it is mainly a. Injected into the cheese b. Grown on the cheese c. Mixed in the whey mixture d. None of the above

89.	Some streptococci that produce lactic acid also produce certain aldehydes, which impart a flavor.	
	a. Malty	
	b. Bitter	
	c. Salty	
	d. Metallic	
90.	By using awith plastic beads of varying density, nonfat solids in milk can be rapidly estimated.	
	a. Lactometer	
	b. Hydrometer	
	c. Humidoscope	
	d. Polyscope	
91.	Milk meeting the highest sanitary requirements is known as Grade	
	a. A_	
	b. AA	
	c. AAA	
	d. AAAA	
92.	The major cause of mastitis infections areinfections	
	a. Actinomycosis	
	b. Virus	
	c. Coliform	
	d. Bacterial	
93.	The two main proteins in milk areand	
	a. Lactose, Lactalbumin	
	b. Casein, Lactalbumin	
	c. Ascorbic, Thiamin	
	d. Colgate, Casein	
94.	What is the largest cost on most U.S. dairy farms?	
	a. Feed	
	b. Fuel	
	c. Labor	
	d. Veterinary	
95.	Pasteurization was developed inas a heat treatment to preserve food.	
	a. 1890	
	b. 1920	
	c. 1930	
	d. 1946	
96.	is a milk process that makes milk more easily digested by those with a sensitive digestive	
	system.	
	a. Ionization	
	b. Evaporation	
	c. Pasteurization	
	d. Homogenization	

97.	amino acids are commonly found in milk proteins, including the essential amino acids.
	a. 7
	b. 12
	c. 14
	d. 19
98.	Continued low calcium intake may result inin adults.
	a. Cavities
	b. Nerve irritability
	c. Loss of genetic height potential
	d. Osteoporosis
99.	Summer milk has been estimated to contain 1.6 times as much vitamin as winter milk.
	a. A
	b. B
	c. C
	d. D
100.	The number of Federal milk marketing orders in the United States is
	a. 1 to 2
	b. 6 to 7
	c. 15 to 16
	d. 20 - 21
101.	is the process of killing all microorganisms.
	a. Pre-cleaning
	b. Contamination
	c. Sterilization
	d. Sanitation
102.	S. M. Babcock developed the Babcock Test in
	a. 1960
	b. 1941
	c. 1917
	d. 1890
103.	Bangs Disease is another name for
	a. Q-fever
	b. Undulant fever
	c. Tuberculosis
	d. Brucellosis
104.	By regulation, milk from cows treated with antibiotics usually must be withheld forhours.
	a. 48 – 72
	b. 30 – 60
	c. 48 – 108
	d. 72 – 96
105.	By FDA definition, an imitation product does not have to the real product it represents.
	a. Have the same nutritional value
	b. Taste like
	c. Look like
	d. Imitation products are not regulated by the FDA

106.	Milk is sold in units of by the producer to the handler.
	a. Pounds
	b. Gallons
	c. Cwt
	d. Ton (s)
107.	Milk producers have formed to gain bargaining power.
207.	a. Direct marketing systems
	b. Cooperatives
	c. Marketing clubs
	d. Cost of production organizations
108.	What is the test used to screen for antibiotics in milk?
100.	a. Direct microscope
	b. Charm
	c. Kjeldahl
	d. Cryoscope
	u. C. yoscope
109.	The California Masitis Test (CMT) asks that you use onlymilk.
	a. Colostrum
	b. Milk after "dry-off"
	c. The first stream during milking
	d. The second stream during milking
110.	Class II manufactured dairy products are used in soft manufactured products such as
	a. Butter and cheddar cheese
	b. Cream products, cottage cheese, and ice cream
	c. Fluid whole milk, fluid low fat and skim milk, and flavored milk
	d. Half-and-half
111.	Under which of the following weather conditions would you expect to observe the greatest decrease
	in milk yield per cow?
	a. Cold and dry
	b. Hot and humid
	c. Cool and humid
	d. Warm and dry
112.	Although milk from the cow is processed, it is not an engineered or fabricated food and contains
	about% solids.
	a. 3.5
	b. 13
	c. 76
	d. 87
113.	Removing cows from green grass or silage four hours prior to milking, can minimize or eliminate
115.	which flavor defect in milk?
	a. Flat
	b. Feed
	c. Bitter
	d. High acid

114.	Purple color that results from CMT test is generally more intense in samples from infected quarter
	because such samples have apH.
	a. Alkaline
	b. Acid
	c. Neutral
	d. No correct answer listed
115.	Dairy cows needday dry periods for rejuvenation of secretary tissue and restoration of
	body condition.
	a. 30
	b. 60
	c. 90
	d. 120
116.	The annual average milk production per cow is nearly?
	a. 8800 quarts
	b. 7950 quarts
	c. 7800 quarts
	d. 6880 quarts
117.	Mandatory animal drug residue testing was established in
	a. 1948
	b. 1988
	c. 1993
	d. 2000
118.	Federal milk marketing orders reformed; component pricing introduced in
	a. 1948
	b. 1988
	c. 1993
	d. 2000
119.	Contains not less than 18 percent milkfat, but less than 30 percent.
	a. Half-and-Half
	b. Light Whipping Cream
	c. Milk
	d. Light Cream
120.	Contains not less than 30 percent milkfat, but less than 36 percent milkfat.
	a. Half-and-Half
	b. Light Whipping Cream
	c. Milk
	d. Light Cream
121.	Contains not less than 36 percent milkfat.
	a. Half-and-Half
	b. Light Whipping Cream
	c. Heavy Cream
	d. Light Cream

122.	Cheese manufacturers realize greater yields from milk when the somatic cell counts are low and the
	a. Protein content is low
	b. Milkfat content is low
	c. Protein content is high
	d. Carbohydrate content is high
123.	What is the number one reason for culling cows on American dairy farms, according to National
	Health Monitoring System data?
	a. Lameness
	b. Reproduction problems
	c. High somatic cell count d. Low production
124.	Poor quality forage will causeto decrease significantly.
14-7.	a. Somatic cells
	b. Casein percentage
	c. Bacteria count
	d. Fat percentage
125.	The rolling herd average is defined as
	a. An average of the herd's fat and protein percentages
	b. An average of the number of cows in milk at any given time
	c. The average number of hours a cow in the herd is milked per lactation
	d. An estimate of annual milk production
126.	Typical farm milk consists of
	a. 87.6% water, 3.7% fat, 3.2% protein, 5.5% other solids
	b. 50.6% water, 3.7% fat, 4.2% protein, 41.5% other solids
	c. 80.6% water, 6.7% fat, 4.2% protein, 8.5% other solids
	d. 84.6% water, 4.7% fat, 6.2% protein, 4.5% other solids
127.	The document used by the U.S. dairy industry that contains the rules for producing today's fresh pasteurized milk supply is
	a. The Code of Federal Regulations
	b. Standard Methods for the Examination of Dairy Products
	c. The Grade A Pasteurized Milk Ordinance (PMO)
	d. The Codes Alimentarius of the World Health Organization
128.	Under Federal Orders milk is priced based on the finished dairy product in which it is used. This is called
	a. Minimum pricing
	b. Creative pricing
	c. Maximum pricing
	d. Classified pricing
129.	Federal milk order hearings can be lengthy because can testify and can cross
	examine the witness.
	a. Only federal employees, no one
	b. Only cooperative managers, anyone
	c. Only federal lawyers, anyoned. Any interested party, anyone
	a. Any interested party, anyone

130.	Most dairy cows are milked two or three times per day. On average, a cowwill producegallons of milk each day.
	A. 1 to 2
	B. 8 to 9
	C. 15 to 16
	D. 20 to 21
131.	Prices paid by handlers are identical in all federal orders for milk utilized in the manufactured product categories, however milk used in Class I varies by location. The highest price paid for Class I milk is in
	theregions of the United States.
	a. Southeast
	b. Northwest
	c. Midwest d. Northeast
	u. Northeast
132.	In a milk market with four classes of milk, Class III milk is commonly used for
	a. Fluid products
	b. Cottage cheese and cream products
	c. Cheese
	d. Butter and dry products
133.	Since 1984 President Ronald Reagan proclaimed a National Ice Cream Month. It has been celebrated
	annually, every
	a. June
	c. July
	b. August
	d. September
134.	Over half of the top 50 U.S. dairy cooperatives belong to a federation that is dairy farmers' chief
	lobbying voice in the nation's capital. What is the name of the federation?
	a. International Dairy Federation
	b. Dairy Farmers of America Federation
	c. National Milk Producers Federation
	d. International Dairy Foods Association
135.	USDA Farm Service Agency administersthat offers dairy producers a catastrophic
	coverage when the difference between the all-milk price and average feed costs falls below a
	specified level.
	a. Margin Protection Program
	b. Cooperatives Working Together
	c. Federal Market Orders
	d. DEIP Exports
136.	Dividing the total dollars a dairy has in assets by the number of cows determines which economic
	indicator?
	a. Equity
	b. Total investment per cow
	c. Debt per cow
	d. Debt to asset ratio

137.	is an effective exercise recovery due to its powerful nutrient package that supplies the nutrition the body needs after a workout. It has carbohydrates to help refuel the body; protein to help reduce muscle breakdown and stimulate growth; and fluid and electrolytes to aid in rehydration. Drinking it after resistance training has been show to increase the body's ability to make new muscle and may help improve body composition. a. Chocolate milk b. Greek yogurt c. Gatorade d. Whey protein concentrate
138.	What piece of legislation made farmer cooperatives legal?
	a. Capper-Volstead Act
	b. Farm Bill
	c. Sherman Act
	d. Barkley Act
139.	According to the National Animal Health Monitoring System data, what do most farmers site as the most common criteria for weaning a calf?
	A. Age
	B. Starter intake
	C. Weight D. Space constraints
140.	The ideal cleaning agent for removing milkstone from equipment surfaces is
	a. Acidic detergent
	b. Phosphate
	c. Chelating agent d. Surfactant
	a. Sanacane
141.	The key to boosting milk protein lies largely in getting the correct amino acids to which part of the cow's digestive tract?
	a. Rumen
	b. Small intestine
	c. Omasum
	d. Reticulum
142.	Even when there are no clinical signs, a cow's milk production begins to decline when its somatic cell count is greater than how many cells/ml?
	a. 100,000 cells/ml
	b. 200,000 cells/ml
	c. 400,000 cells/ml
	d. 750,000 cells/ml
143.	The two most common tests used for determination of unpasteurized milkquality are
± .5.	and
	a. Standard plate count and color
	b. Somatic cell count and standard plate count
	c. Flavor and titratable acidity
	d. Somatic cell count and odor

144.	Bulk tanks that are used to store raw milk should have what mechanical component to assure thorough mixing of the milk to prevent fat separation? a. Thermometer
	b. Agitator
	c. Air vent
	d. Automated control box
145.	Cracked and blistered rubber parts of milking machines are likely to cause
	a. High bacteria counts of milk
	b. Oxidation of milk
	c. Rancid flavor in milk
	d. High freezing points of milk
146.	Milk used to make ice cream would be priced in what Federal Order class?
	a. Class I
	b. Class II
	c. Class III
	d. Class IV
147.	Under several Federal Milk Marketing Orders, milk is priced based on the amount of
	a. Water and free fatty acids
	b. Mastitis and aflatoxins
	c. Bacteria counts of milk and antibiotics
	d. Fat, protein, and other solids
148.	What step in the milking preparation routine starts the release of oxytocin?
	a. Predipping
	b. Being brought into the parlor
	c. Forestripping
	d. Unit attachment
149.	A cow's stomach has four compartments. Which stomach compartment has the primary function of
	absorbing water and other substances from the digested contents?
	a. Rumen b. Omasum
	c. Abomasum
	d. Reticulum
450	
150.	Some soft serve frozen dairy products have replaced milk fat with
	a. peanut butter
	b. vegetable oil
	c. honey
	d. fruits
151.	Molds growing on corn and other feed grains may produce
	a. Fungicides
	b. Antibiotics
	c. Aflatoxins
	d. Bactericide

152.	The actual milk check amount received by a dairy farmer is called the a. Milk-feed ratio price b. Cooperative bonus premium c. Federal Order price d. Mailbox price
153.	One type of test for antibiotics, common adulterants ofmilk, is based upon the principle that the growth of bacteria isby them. a. Stimulated b. Enhanced c. Magnified d. Inhibited
154.	 Which of the following directly influence(s) the total supply of milk? a. Prices paid to milk producers b. Manufacturing plants c. Costs of fat production d. Foreign exports
155.	 22. Dairy farmers can buy and sell dairy futures on what exchange? a. New York Stock Exchange b. National Dairy Exchange c. Coffee, Sugar, Coca Exchange d. Chicago Mercantile Exchange
156.	 35. USDA reports net prices received by dairy farmers for milk, usually the prices are published on a map to show regional differences. The prices are referred to as a. Blend prices b. Regional prices c. Mailbox prices d. BFP prices
157.	36. If you produce milk in this state, the price you will receive for your milk is a blend of classes, components, quota, and non-quota values. It is the only state with its own farm milk pricing system The state is a. Wisconsin b. Texas c. New Mexico d. California
158.	 61. The two most important etlologic agents of mastitis are a. Streptococcus agaiactiae and Staphylococcus aureaus b. Streptococcus uberis and Streptococcus dysgapactiae c. Pseudomonas aeruginosa and coliform bacteria d. Klebsiella and actinomycetes
159.	cause(s) flavors in milk such as acid, high acid, or sour milk. a. Chemical adulterants b. Microorganisms c. Sediment d. Weeds

160.	Aflatoxins sometimes found in dairy foods are produced by	
	a. Protozoa	
	b. Bacteria	
	c. Mold	
	d. Yeasts	
161.	To make one pound of butter, you need approximatelypounds of whole milk.	
	a. 21.2	
	b. 2.2	
	c. 10.6	
	d. 10.0	
162.	When using a milking machine, the milk is drawn from the cowby	
	a. Vacuum	
	b. The liner pulse squeezing the teat	
	c. The Liner opening the teat	
	d. Air pressure	
163.	Federal milk marketing orders are a mechanism for	
	a. Market stabilization	
	b. Controlling the utilization of milk	
	c. Assuring a market for producers' milk	
	d. Assuring a reasonable price for milk	
164.	is a test for rancidity.	
	a. Titratible acidity	
	b. Cryoscope	
	c. Disc assay	
	d. Acid degree value	
165.	Which of the following is a name used for bacteria that grow in milk at 40-50 deg. F?	
	a. Coliforms	
	b. Psychrotrophs	
	c. Thermophiles	
	d. Mesophiles	
166.	is the time after processing during which a dairy product normally remains suitable f	for
	human consumption.	
	a. Code date	
	b. Product life	
	c. Package date	
	d. Shelf date	
167.	The only mastitis pathogen using the mammary gland as its primary habitatis	
	a. Lactis	
	b. Cremoris	
	c. Agalactiae	
	d. Thermophilus	

168.	The milk fat differential used in paying for raw milk is: a. The price to be added or subtracted per 1/10 % of milk fat above or below a set percentage b. A value established to penalize milk producers who have too much fat in their milk c. A value set to penalize milk producers who have too little fat in their milk d. The price to be added or subtracted per 50 percent of milk fat above or below a set percentage
169.	Milk freezes within a range oftodegrees C. a530 to550 b330 to350 c430 to450 d630 to650
170.	For the maximum intake of calcium, one should consume a. Whole Milk b. 2% Milk c. 1% Milk d. Skim Milk
171.	Net profit after taxes divided by annual net sales is called a. Profit margin b. Return on equity c. Return in assets d. Carry over profits
172.	As with grade A milk,adopts and enforces regulations to control milk used for the manufacturing of milk products. a. The federal government b. Each state c. The large dairy cooperatives d. Each milk marketing orders area
173.	Bacteria that survive specific heat treatment are said to be a. Psychrotrophic b. Coliform c. Psychrophilic d. Thermoduric
174.	 Which of the following does not promote metallic/oxidized off flavor in milk? a. Hypochlorite sanitizer b. Sunlight c. Fluorescent light d. Copper
175.	To separate the aqueous and fat in the final stage of the Babcocktest, ais used. a. Hot water bath b. Centrifuge c. Sulfuric acid bath d. Colloidal component

176.	Acup is a cup with fine wire mesh on top used to detect the presence of abnormal milk. a. Striated
	b. Mesh
	c. Streak
	d. Strip
177.	Quarters infected with mastitis tend to shed moredefending white blood cells.
	a. Leukocytes
	b. Bovis
	c. Sediment
	d. Virulent organisms
178.	The hormone oxytocin is released by thegland. This act stimulates the mammary gland.
	a. Pituitary
	b. Sweat
	c. Endocrine
	d. Vascular
179.	The first law on milk quality in the United States prohibited the addition ofto milk.
	a. Sediment
	b. Antibiotics
	c. Water
	d. Protein
180.	According to HACCP, a receiving station is where
	a. raw milk is received, handled, stored, etc
	b. cows enter the parlor to be milked
	c. trucks receive milk
	d. supplies are received
181.	To remove fat from milking equipment an is used.
	a. Alkaline cleaner in hot water
	b. Acid cleaner in cold water
	c. Acid cleaner in hot water
	d. Alkaline cleaner in cold water
182.	Compared to a Holstein cow, the average Jersey cowproduces on a per-gallon of mil basis.
	a. More fat and total milk solids
	b. More fat but less total milk solids
	c. Less fat but more total milk solids
	d. Less fat and total milk solids
183.	Infectious mastitis microorganisms almost invariably gain entrance to the mammary gland via a
	a. Blind quarter
	b. Suspensory ligament
	c. Streak canal
	d. Caudal base

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184.	Adulterants of milk that are detrimental to human health are
	a. Proteins
	b. Pesticides
	c. Minerals
	d. Water
185.	The two main proteins in milk areand
	a. Casein, lactalbumin
	b. Ascorbic, thiamin
	c. Lactose, lactalbumin
	d. Colgate, casein
186.	The enzymeis almost completely inactivated during pasteurization.
	a. Acid glycerol
	b. FFA (Free Fatty Acid)
	c. Alkaline phosphatase
	d. lactose
187.	The absence ofin milk is not an accident, since they would catalyze oxidation,
	producing metallic or oxidized flavors.
	a. Boron and tin
	b. Zinc and brass
	c. Lead and casein
	d. Iron and copper
188.	The titratable acidity of milk that has been cooled properly usually ranges frompercent.
	a13 to .17
	b. 1.3 to 1.7
	c26 to .30
	d013 to 0.17
189.	Under Federal Orders, dairy farmers receive their milk checks
	a. Weekly
	b. Bi-monthly
	c. Daily
	d. Once or twice monthly
190.	To identify specific bacteria in a Standard Plate Count, a Preliminary Incubation Count is performed in
	which the sample is incubated for
	a. 18 hours for 55 degrees F
	b. 18 hours for 55 degrees C
	c. 32 hours for 48 degrees F
	d. 48 hours for 32 degrees C
191.	When performing a California Mastitis Test (CMT) test milk from a normal quarter
	a. Forms small clumps in a moderate reaction
	b. Forms a gelatinous mass clinging together in a strong reaction
	c. Turns a deep purple color
	d. Flows freely without change in viscosity

192.	Theor uniform price is determined by the proportion of the total delivery used in products of each class. a. Average		
	b. Classified		
	c. Parity		
	d. Blend		
193.	An advantage of making processed cheese is its		
	a. Better taste		
	b. Marketability c. Extended shelf-life		
	d. All of these		
194.	Rules developed by theare designed to protect the health and welfare of consumers.		
	a. United States Department of Agriculture (USDA)		
	b. Food and Drug Administration (FDA)		
	c. Future Farmers of America (FFA)		
	d. Protein and Lactose Organization (PLO)		
195.	Quality checks of Grade A milk is		
	a. Done by the milk processor		
	b. A responsibility of the health authorityc. The first consideration in pooling milk		
	d. A part of the testing by Market Administrators		
	a. A part of the testing by Warket Administrators		
196.	Salmonellosis infections are most common in cows that have calved within		
	a. 2 days		
	b. 50 daysc. 20 days		
	d. 10 days		
	·		
197.	When a producer's 3 month somatic cell count (SCC) rolling mean exceeds 400,000,a		
	request must be submitted to AMS in an effort to keep the milk eligible for export to the EU. a. Premium denial		
	b. Degradation		
	c. Derogation		
	d. Re-inspection		
198.	As produced at the farm, milk from Holstein cows is expected to contain approximately		
	percent milkfat andpercent nonfat milk solids.		
	a2.7 , 8.7		
	b8.7, 3.7 c8.7 , 2.7		
	d3.7 , 8.7		
199.	A CMT test result that indicates a somatic cell count of 400,000 to 1,500,000 will produce a		
	a. Slight precipitate which tends to disappear		
	b. Distinct precipitate, but no gel		
	c. Viscous gel which adheres to paddle.d. Mixture which thickens with slight gelation		
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200.	The decision of a milk hauler to accept or reject milk at the farm	
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A. Is made the day before pickup is scheduled

- b. All of these
- c. Depends on a knowledge of milk quality and ability to smell off odors
- d. Must always be confirmed by acidity test