## 2012-2015 TEXAS FFA MILK QUALITY AND PRODUCTS CDE TEST QUESTIONS

1)	<ul> <li>The milk fat differential used in paying for raw milk is:</li> <li>a. The price to be added or subtracted per 1/10 % of milk fat above or below a set percentage</li> <li>b. A value established to penalize milk producers who have too much fat in their milk</li> <li>c. A value set to penalize milk producers who have too little fat in their milk</li> <li>d. The price to be added or subtracted per 50 percent of milk fat above or below a set percentage</li> </ul>
2)	The form of mastitis that is hidden from sight is known as
	a. Infectious b. Clinical c. Acute d. Sub-Clinical
3)	Which of the following will best control contagious mastitis?  a. Pre-milking teat dip  b. Barrier type teat dip  c. Antibiotic teat dip  d. Germicidal teat dip
4)	The Standard Plate Count (SPC) has a prescribed incubation time ofhours at °C. a. 24 hours at 32°C b. 48 hours at 45°C c. 48 hours at 32°C d. 12 hours at 45°C
5)	One type of test for antibiotics, common adulterants of milk, is based upon the principle that the growth of bacteria is by them.  a. Stimulated b. Enhanced c. Magnified d. Inhibited
6)	The test is used to detect if milk has been pasteurized properly.  a. Lipase b. Coliform

c. Standard Plate Count

d. Phosphatase

7)			and	in approximately the same ratio
	a. C	d in bone. Calcium and Magnes Calcium and Phosp		
		Calcium and Iron		
	d. F	Phosphorus and Mag	gnesium	
8)	a. C <b>b. N</b> c. L	Cracked or split inflat	ter calving er in washing udders	n mastitis?
9)	About provided a. 6 b. 7 c. 8 d. 9	d by milk and milk pi 6% <b>6%</b> 6%		ailable in the food supply is
10)	<b>a. P</b> b. N c. C	of the following directions of the following directions of fat productions of fat product		total supply of milk?
11)	<b>a. G</b> b. M c. G	asteurized Milk Ordi Grade A milk Manufacturing grade Grade B milk Grade C milk	nance regulates what	t?
12)	a. N b. N c. C	farmers can buy and lew York Stock Excl lational Dairy Excha Coffee, Sugar, Coca Chicago Mercantile	inge Exchange	what exchange?
13)		le need at least 00	lutrition Board of the milligrams of	National Academy of Sciences, calcium per day.
		0,000		
	d. 1	00,000		

as \_\_\_\_

a. Blend prices

b. Regional prices c. Mailbox prices d. BFP prices

<ul> <li>14) The cheese price series is based on 63 U.S. cheese plants that make 80-85 percent of the bulk Cheddar. What is the price series called?</li> <li>a. NASS Cheese Price Survey</li> <li>b. NASS Cheddar Cheese Price Survey</li> <li>c. NASS Swiss Cheese Price Survey</li> <li>d. U.S. Cheddar Cheese Price Survey</li> </ul>
<ul> <li>15) What marketing tool would be used in the futures market by someone who owns a commodity such as milk and intends to sell it sometime in the future?</li> <li>a. Basis contract</li> <li>b. Pooling contract</li> <li>c. Short Hedge</li> <li>d. Speculating buyer</li> </ul>
16) Farm water supplies must be protected from surface contamination. Water is usually tested for as an indicator of possible sewage contamination a. Proteolytic bacteria b. Lipolytic bacteria c. Coliform bacteria d. Psychotropic bacteria
17) Specific gravity of milk at 60°F is a. 1.022 b. 1.032 c. 1.033 d. 1.042
18) The International Dairy Federations (IDF) mission is to promote  a. Scientific, cultural & economic progress b. Agricultural, technical & economic progress c. Technical, scientific & industrial progress d. Scientific, technical & economic progress
19) 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

	The "set aside" of \$0.15 per hundred pounds of milk from a milk producer's neck is used in programs that support  a. Promotions & research  b. Research & testing c. Teaching & promotion d. Promotion & teaching
21)	What is the most popular size container used for fluid milk?  a. Gallon b. Half Gallon c. Quart d. Five quart bulk
	Onion and garlic are responsible for the garlic/onion off-flavor in milk, and are lore prevalent in pasture during a. Fall b. Spring c. Early and late summer d. Early spring and late fall
-	Chemical sanitizers containing are most widely used for sanitizing illking equipment.  a. Bromine b. Saline c. Chlorine d. lodine
24)	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
25)	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
26)	Adulterants of milk that are detrimental to human health are a. Proteins b. Pesticides c. Water d. Minerals

27)	a. b. c.	er added to milk is detected by checking the Acid degree value Sediment content Titratable acidity Freezing point
28)	<b>a.</b> b. c.	with low total solids will produce what off-flavor?  Flat  Malty  Salty  Acid
29)	a. b. c.	yoscopy is an important tool that test for in milk. Butterfat Antibiotics Pesticides Added water
30)	a. b. <b>c.</b>	is the only source of in nature. Calcium Phosphorous Lactose Fatty acids
	shelf I a. b. <b>c.</b>	ch of the following is not an important reason for a five day-seven degree ife test?  Psychotropic bacteria reproduce at this temperature  Meaningful data can be available for control application in a reasonable time  It lowers variability among cartons of milk  The Temperature is at or near the maximum at which milk will be stored
-	surfac <b>a.</b> b. c.	ideal cleaning material for removing milk stone from milking equipment ses is  Acidic detergent Phosphate Surfactant Chelate
	nillilite a. <b>b.</b> c.	somatic cell count standard for Grade A raw milk is or less per er of milk. 500,000 750,000 1,000,000 1,500,000

enhand <b>a.</b> b. c.	ability of lipase in milk to attack milk fat and produce a rancid off flavor is ced by:  Excessive agitation of warm raw milk  Poorly cleaned milking equipment  Exposing milk to sunlight  Feeding cows moldy hay
the right extent. a. b. c.	when the Capper-Volstead Act was enacted, cooperatives were given and power to organize producers of a farm commodity to its fullest  1829 1959 1729 1929
<b>a.</b> b. c.	wo most important etiologic agents of mastitis are  Streptococcus agaiactiae and Staphylococcus aureaus  Streptococcus uberis and Streptococcus dysgapactiae  Pseudomonas aeruginosa and coliform bacteria  Klebsiella and actinomycetes
<b>b.</b> C.	cause(s) off flavors in milk such as acid, high acid, or sour milk. Chemical adulterants Microorganisms Sediment Weeds
a. b. <b>c.</b>	oxins sometimes found in dairy feeds are produced by: Protozoa Bacteria <b>Mold</b> Yeasts
caused a. b. c.	the exception of, all of the following off flavors of milk are d by bacteria. Bitter Malty Yeasty Salty

,	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
41)	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
42)	Milk covered by Federal milk marketing orders is  a. Grade A b. Grade B c. Grade C d. Grade A, B, C
43)	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
44)	Operating costs of Federal orders are paid by a. The State Department of Agriculture b. The Federal government c. The milk producers d. The milk handlers
45)	One objective of a federal order is to  a. Assure all dairy farmers an adequate income b. Assure consumers an adequate supply of pure, wholesome milk c. Assure that all dairy plants receive an adequate supply of milk d. Prevent surpluses of milk in the marketplace
,	Federal Definitions and Standards of Identity specify that Whole Milk contain not less than  a. 3.00 percent milk fat and 8.25 percent solids-not-fat  b. 3.50 percent milk fat and 8.50 percent solids-not-fat  c. 3.50 percent milk fat and 8.00 percent solids-not-fat  d. 3.25 percent milk fat and 8.25 percent solids-not-fat

	oaste a. <b>b.</b> c.	ddar cheeses sold in the United States, which are not made from urized milk, must be ripened at least days.  30 60 120 150
48)	The	establishment of a Federal milk marketing order is generally initiated by
_	b. C.	Dairy farmers, through their cooperative association Milk handlers in the market Consumers Dairy farmers, milk handlers and consumers
	after a a. <b>b.</b> c.	ilk order, including pricing and other provisions, becomes effective only approval by  Consumers  Dairy farmers  Milk processors  Secretary of Agriculture
	ninim a. <b>b.</b> c.	eral milk marketing orders give an active voice in determining num milk prices through public hearings.  Milk activists  Milk handlers  Milk processors  Milk consumers
	storag a. b.	rules States adopt to govern the production, processing, packaging and ge of Grade A milk are based on  The Code of Federal Regulations  The Pasteurized Milk Ordinance and Code  USDA Rules and Regulations  The Pure Milk Act of 1937
52)	a. b. <b>c.</b>	wors of milk may be caused in general by  Water content of the milk  Temperature that milk is stored  Feeds consumed by the cow  Amount of sun light the cow receives
53)	a. b. <b>c.</b>	major cause of the salty flavor in milk is  The large intake of salt by the cow Associated with sunlight exposure  Mastitis Bacteria

54)	is a test for rancidity.
	a. Acid degree value
	b. Cryoscope
	c. Disc assay
	d. Titratable acidity
55)	Mastitis in milk
	a. Has a direct effect on cheese yield
	b. May cause increased rancidity
	c. Decreases calcium content
	d. Increases protein content
56)	Which of the following is not one of the duties of the bulk milk hauler, who play
а	a critical role in milk handling?
	Checking milk temperature
	b. Making sure equipment has been cleaned correctly
	c. Examining milk to determine appearance
	d. Collecting a representative sample to be used for tests
57) -	Milk with an Acid Degree Value (ADV) of 1.0 or above will have a detectable flavor.  a. Rancid b. Malty c. Acidic d. Fruity
58)	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
59)	Lactose is the principal in milk.
	a. Fat
	b. Protein
	c. Carbohydrate
	d. Mineral
	The most effective and economical means of reducing the exposure of cows to
n	nastitis causing microorganisms is to
	a. Isolate animals with clinical mastitis
	b. Disinfect or sterilize milking machine inflation's between cows
	<ul> <li>Wear rubber or plastic gloves during milking and disinfect the gloves between cows</li> </ul>
	d. Use a bactericide for disinfecting the teats after milking

a. Water in milk

b. Titratable acidityc. Fat content

d. Nonfat milk solids content

<ul> <li>61) Most farm bulk milk tanks are designed for every-other-day (EOD) pickup and must cool 25 percent of the volume of the tank to degrees F within two hours after milking.</li> <li>a. 25</li> <li>b. 45</li> <li>c. 60</li> <li>d. 70</li> </ul>
<ul> <li>62) A consumer found an off-flavor in milk packaged in transparent plastic and exposed to high intensity fluorescent light. The off-flavor probably was</li> <li>a. High acid</li> <li>b. Bitter</li> <li>c. Oxidized</li> <li>d. Rancid (lipolyzed)</li> </ul>
63) Which group of flavors cannot be detected by odor?  a. Bitter, salty b. High acid, rancid c. Feed, garlic/onion d. Metallic/oxidized, malty
64) 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
<ul> <li>is the time after processing during which a dairy product normally remains suitable for human consumption.</li> <li>a. Code date</li> <li>b. Product life</li> <li>c. Package date</li> <li>d. Shelf date</li> </ul>
66) 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
67) The Babcock test is a rapid, simple and accurate test for:

68) To remove fat from milking equipment use:

	b. C.	Alkaline cleaner in hot water Alkaline cleaner in cold water Acid cleaner in cold water Acid cleaner in hot water
69)	<b>a.</b> b. c.	lity of grade A milk is:  Not controlled by Federal Orders  The first consideration in pooling milk A part of the testing by Market Administrators  Only checked if there is excess milk
70)	a. b. c.	eral Milk Marketing Orders provide or describe: Sanitary standards used for grade A Milk purchased by dealers Milk sold by farmers Payment made to milk producers for milk
	nilk c a. <b>b.</b> c.	kes approximately lbs. of whole milk to make one pound of whole heddar cheese.  5 10 13 22
72)	a. b. c.	eral Milk Marketing Orders are a mechanism for: The most economical utilization of milk Finding a market for every producer's milk Economical transportation of milk Market stabilization
73)	a. b. <b>c.</b>	's milk contains percent lactose. Three Four Five Six
74)	a. b. c.	the maximum intake of calcium, one should consume Whole Milk 2% Milk 1% Milk Skim Milk

,	anno <b>a.</b> b. c.	e some extra-label drugs can be used by food-producing animals, others at. Which of the following is/are an illegal drug(s)?  Clenbuterol Penicillin Tetracycline Ivomec
76)	a. <b>b.</b> c.	fat in one serving of whole milk (8 ounces) provides calories.  85  90  95 100
77)	a. b. c.	most prevalent off flavor of fluid milk is  Malty Oxidized Flat Feed
<i>'</i> _	other a. b. <b>c.</b>	microbiological standard for Grade A raw from single procedure is bacteria per millimeter of milk prior to co-mingling with milk from producers. 200,000 150,000 100,000 50,000
t	o the equir a. b. <b>c.</b>	teurization is the process of heating every particle of milk and milk products minimum required and holding it continuously for the minimum ed in equipment that is properly designed and operated.  Temperature and length Time and temperature  Temperature and time Time and length
	he m <b>a.</b> b. c.	major reason milk from cows treated with antibiotics must be withheld from ilk supply is because  A large proportion of the human population is sensitive to antibiotics Antibiotics increase the somatic cell count of milk  Antibiotics cause an off-flavor in milk  Antibiotics kill some of the good bacteria found in milk

,	chees	en cows have mastitis, the protein content of milk may be higher, but the e yield is lower because of a decrease in protein.
		Lysine
		Casein
		Tryptophan
	a.	Whey
82)		teria that survive specific heat treatment are said to be
		Psychotropic
		Coliform
		Psychrophilic
	a.	Thermoduric
,		is exposure of hot milk or milk product to reduced pressure to affect
t		moval of volatile substances, especially those that enter milk from feed.
		Vaporization
		Infusion heater
		Vacuumization
	a.	Vac Pac process
84)		gh acid flavor (sour) in milk is caused by
		Growth of bacteria in the milk
		Exposure of cows to acid rain
		Drinking hard water
	d.	Absorption of acid from corn silage
85)		enzyme is almost completely inactivated during pasteurization.
		Lactose
		Acid glycerol
		Alkaline phosphatase
	d.	Free fatty acids
i		poling method, where by, handlers with higher than average utilization pay and handlers with lower than average utilization receives payment from is
,		Base excess pricing
		Louisville take out and pay back
		Individual handler pools
		Producer settlement fund
<b>87</b> )	The	absence of and is not an accident, because they would
		ze oxidation, their producing metallic or oxidized flavors.
`	,	Lead-casein
		Boron-tin
		Iron-copper
		7inc-brass

88) The CMT test results that indicate a somatic cell count of 400000 to 1500000
<ul> <li>a. Mixture thickens with slight gelation</li> <li>b. Viscous gel forms, mass adheres to paddle</li> <li>c. Distinct precipitate forms, but no gel</li> <li>d. Slight precipitate forms and tends to disappear</li> </ul>
89) Which of the following is <b>not</b> a part of the establishment of a federal marketing order?
<ul> <li>a. A public hearing is held for the producers-handlers and the public</li> <li>b. Must be approved by 2/3 of the producers supplying 3/4 of the milk</li> <li>c. Cooperative associations of milk producers petition the U.S. Secretary of Agriculture</li> </ul>
<ul> <li>d. A producer cooperative may vote all its members who deliver milk during a certain period.</li> </ul>
90) 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
91) The only persons regulated by federal orders are a. Farmers b. Truckers c. Handlers d. Retail store owners
92) The increased use of bulk cooling and storage equipment has made bacteria the primary organisms in raw milk.  a. Psychrophilic b. Coliform c. Staphylococcus d. Streptococcus
93) 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

94)	<b>a.</b> b. c.	ch of the following does not promote metallic/oxidized off flavor in milk?  Hypochlorite sanitizer  Sunlight  Fluorescent light  Copper
95)	a. b. <b>c.</b>	ole milk contains percent protein. 1.5-2.5 2.5-3.5 3.5-4.0 4.0-4.5
96)	a. <b>b.</b> c.	ch of the following is not an objective of milk evaluation?  Determining the presence of desirable characteristics  Determining one brand of milk from another  Determining whether one sample differs from another  Determining presence and magnitude of undesirable characteristics
	namn a. b. <b>c.</b>	titis infecting microorganisms almost invariably gain entrance to the nary gland via the Caudal base Blind quarter Streak canal Feed
	bnor a. b. c.	cup is a cup with fine wire mesh on top used to detect the presence of mal milk. Striated Mesh Streak Strip
	emov a. b. <b>c.</b>	needs to be applied to the teat end in order for a milking machine to re milk.  Massaging action Pulsation  Vacuum Pressure
,	ne ca a. <b>b.</b> c.	ch of the following four primary taste sensations is correctly matched with usal agent? Salty-sugar Bitter-quinine Sweet-lactic acid Sour-table salt

101) Some streptococci that produce lactic acid also produce certain aldehydes, which impart a flavor.  a. Malty b. Bitter c. Salty d. Metallic
<ul> <li>102) By using a with plastic beads of varying density, nonfat solids in milk can be rapidly estimated.</li> <li>a. Lactometer</li> <li>b. Hydrometer</li> <li>c. Humidoscope</li> <li>d. Polyscope</li> </ul>
103) The two main proteins in milk are and a. Lactose, Lactalbumin b. Casein, Lactalbumin c. Ascorbic, Thiamin d. Colgate, Casein
104) Vitamin was first discovered in milk fat and is important to eyesight.  a. A  b. B c. C d. D
<ul> <li>105) Milk contains all the known vitamins and is an especially good source of</li> <li>a. Cyanocobalmin</li> <li>b. Riboflavin</li> <li>c. Ascorbic Acid</li> <li>d. Thiamine</li> </ul>
106) Milk is a good source of all water-soluble vitamins except for a. Cyanocobalmin b. Riboflavin c. Ascorbic Acid d. Thiamine
107) is a milk process that makes milk more easily digested by those with a sensitive digestive system. a. lonization b. Evaporation c. Pasteurization d. Homogenization

	amino acids are commonly found in milk proteins, including the tial amino acids.
a.	
	12
	14
d.	19
109) Sum winter a. b. c. d.	A B C
110) The	milk becomes the property of the buyer once
,	The transport truck reaches the plant
b.	It is loaded into the transport truck on the farm
	The transport truck leaves the farm
u.	It is unloaded into the processor's bulk tanks
,	s with have a higher incidence of mastitis because physical injury is
more	
	Sickled hocks Horns
	Lower foot angles
d.	Pendulous udders
112) Whi	ch of the following is untrue concerning the federal milk marketing orders?
a.	They are legal instruments
	It is a uniform system of classified pricing
	Producers are not guaranteed a market  Sanitary restrictions on production are imposed on producers.
<b>C.1.</b>	camany recursions on production are imposed on production
	or uniform price is determined by the proportion of the total delivery
	n products of these classes. Classified
	Average
C.	Parity
d.	Blend
114) Und	er federal orders, dairy farmers receive their milk checks
	Once or twice monthly
	Weekly Bi-monthly
	Directly from the FSA office

hundre a. <b>b.</b> c.	efray the cost of federal orders, handlers are assessed per edweight of milk received. 1-3 cents 2-5 cents 3-4 cents 15 cents
<b>a.</b> b. c. d.	h is a true statement concerning federal milk marketing orders?  Public hearings are held so that all interested parties may present their views.  They remove the need for cooperatives.  They are designed to weaken the bargaining power of single large dairy farmers.  They assure the corrected weighting, testing and sanitary conditions of milk.
mamm <b>a.</b> b. c.	normone oxytocin is released by the gland.This act stimulates the ary gland.  Pituitary  Sweat  Endocrine  Vascular
deterge a. b. <b>c.</b>	per parts readily absorb and need to be cleaned in an alkaline ent. Protein Carbohydrates Milk fat Minerals
a. b. c.	main objection to dirt and milk stone on parts is Vacuum fluctuations Poor milkers function Poor looks Increased bacterial count
a. b. <b>c.</b>	dented or damaged milkers unit parts are caused by Strong chemicals Improper design Careless handling Solvents

for <b>a.</b> b.	egulation, milk from cows treated with antibiotics usually must be withheld hours.  48 - 72 30 - 60
	48 – 108 72 – 96
consu a. b. c.	es developed by the are designed to protect the health and welfare of mers.  United States Department of Agriculture (USDA)  Protein and Lactose Organization (PLO)  Future Farmers of America (FFA)  Food and Drug Administration (FDA)
microo a. b. c.	standard plate count (SPC) estimates the total numbers of organisms. Mild Yeast Anaerobic Aerobic
for the <b>a.</b> b. c.	predominant bacteria of milk that produces lactic acid, which is responsible sour taste of milk are the:  Streptococci Psychrophilic Coliform Streptococcus
tenth a. b. c.	traditional method of pricing milk has used a milk fat differential of one of one percent from a milk fat base of percent.  3.0  3.2  3.5  3.7
marke a. <b>b.</b> c.	United States government purchases surplus from the commercial et under the dairy price support program. Fluid milk products, butter, cheese Cheese, nonfat dry milk, butter Butter, evaporated milk, ice cream Ice milk, yogurt, cottage cheese

max a b	ne feed additive isoacid gives a particular response in early lactation.  a. 2 to 4  b. 4 to 6  c. 6 to 8  d. 8 to 10	oound daily milk response, with
than a. b. c.	ixture of milk and cream containing not long 18 percent milk fat, is the definition of Light whipping cream Light cream Half-and-half Heavy cream	ess than 10.5 percent milk fat, but les
from is ca a b c	ne of the mechanisms used by the USD, of the supply is to subsidize manufacture alled the a. Price Support Program b. Butter-Powder Formula c. Dairy Export Incentive Program d. Commodity Credit Program	
the o	nder which of the following weather cond greatest decrease in milk yield per cow? a. Cold and dry b. Hot and humid c. Cool and humid d. Warm and dry	
food a b	Although milk from the cow is processed and contains about % solids a. 3.5 b. 13 c. 76 d. 87	<u> </u>
tissu a <b>b</b>	Dairy cows need day dry per ue and restoration of body condition. a. 30 b. 60 c. 90 d. 120	riods for rejuvenation of secretory

133) Due to high leukocyte counts, farmers should not use the CMT before the day after calving or test milk from cows that are being dried off.
a. First b. Second
<b>c. Third</b> d. Fourth
<ul> <li>134) From the mid 1950's until 2009, the size of the U.S. dairy herd has:</li> <li>a. Decreased by 50%</li> <li>b. Remained static</li> <li>c. Increased by 50%</li> <li>d. More than doubled mirroring the population growth</li> </ul>
135) From the mid 1950's until 2009, individual production per cow has: a. Remained static b. Increased by 50% c. Increased by100% d. Increased by 400%
136) The first milk produced after parturition is called:  a. Colostrum  b. Celestial c. Serial d. Coliseum
<ul> <li>137) Transitional milk is the label given to the milk produced in:</li> <li>a. One retail region and moved to another retail region for processing</li> <li>b. From the Colostrum stage to 11<sup>th</sup> milking which can not be legally marketed for human consumption</li> <li>c. From the truck to the holding silos, not yet in the production cycle</li> <li>d. Produced at the end of a lactation but before the cow is transitioned into the dried state</li> </ul>
138) It requirespound(s) of milk to produce one pound of butter. a. 1 b. 11 c. 22 d. 33
139) It requirespound(s) of milk to produce one gallon of gourmet ice cream.  a. 8  b. 12  c. 16  d. 24

<b>a.</b> b. c.	revent milk fat from separating itself from the fluid portion of the milk is:  Homogenized  Pasteurized  Sterilized  Thermalized
a. <b>b.</b> c.	lobules in raw milk average aboutin diameter: 1/25,000 of an inch, more or less 1 micron 6/25,000 of an inch, more or less 6 microns 1/2,500 of an inch, more or less 100 microns 1/250 of an inch, more or less 1000 microns
remova a. <b>b.</b> c.	orated milk has been preheated to stabilize the protein, followed by the al of: 30% of the water 60% of the water 90% of the water All of the fat
a. b. <b>c.</b>	densed milk on the grocery shelf may haveadded. Salt Minerals Sugar Cream
a. <b>b.</b> c.	major difference between Evaporated and Condensed milk is: Evaporated milk has less water than condensed milk Evaporated milk can be stored non-refrigerated, while condensed milk requires refrigeration Condensed milk has a lower fat content than evaporated milk Condensed milk comes in smaller size containers than evaporated milk
<b>a.</b> b. c.	milk must have less than% moisture by weight.  5% 10% 15% 25%
a. b. c.	milk can be stored for long periods of time: In refrigerated vaults At temperatures above 150 degrees In an open container in the cabinet In a sealed atmosphere of nitrogen or carbon dioxide

a. 20% b. 50%

**c. 80%** d. 100%

a. b. <b>c.</b>	tured" in front of the name of a milk product indicates:  Product is older and more mature  Product is highly refined  Product has appropriate bacteria added to it  Product has been through a school and is more expensive
<b>a.</b> b. c.	cidified" label on a milk product indicates that the product was produced by:  Souring the milk  Enriching the milk with added iron  Cows consumed acid rain water  Passing the milk through a reverse osmosis filtration system
a. b. c.	tage cheese from the grocery shelf must contain no less than: .5% fat 1% fat 2% fat 4% fat
a. b. <b>c.</b>	fat cottage cheese must contain a maximum of: .5% fat 1% fat 2% fat 4% fat
a. b. c.	d is theduring the cheese making process.  A region which supplies substantial components required  Material found in the stomach of young calves necessary  Liquid portion at the bottom on the container that is hard to dispose of  Custard-like substance formed at the top of the container
a. b. c.	er is made from milk and/or cream and must contain a minimum of: 5% fat 20% fat 50% fat 80% fat
153) Cott	age cheese is a soft, unripened cheese with approximatelymoisture content.

154)	Par	mesan and/or Romano cheese are very hard grated/shaken cheese with moisture content.
	а.	20%
	_	30%
		50%
		70%
	u.	1070
		net is used in many milk products to produce a thicker bodied product.
Na		al rennet comes from:
	_	Mines in Eastern China
		Microscopic plants growing the ocean
		Inside the stomach of young claves
	d.	Composted cow manure treated with UV rays
156)	Cult	ured sour cream is required by Federal standards to have a minimum of
	а.	 3.25% fat
	b.	5% fat
	C.	10% fat
	d.	18% fat
,	otec a. <b>b.</b> c.	Cream frequently develops a bitter flavor due to continued bacterial plytic enzyme activity when stored for more than:  1 week  3-4 weeks  6-8 weeks  10-12 weeks
bε	fore inim	ourt is manufactured from fresh, whole, low fat or skim milk that is heated fermentation. However, Federal standards require yogurt to have a um of fat.
		.5%
		1%
		2%
	d.	3.25%
159) l —		-fat yogurt must have a minimum of fat and a maximum of fat.
		1%, 4%
		.5%, 2.5%
		.5%, 2%
	d.	1%, 3.25%

bulky f a. b. c.	fat yogurt must have a maximum of fat prior to the addition of lavors.  .5%  1% 2% 3.25%
minimu a. b. c.	m is a liquid milk product separated from the fluid milk that must contain a um of: 4% fat 10% fat 14% fat 18% fat
a. b. c.	y cream (whipping cream) contains a minimum milk fat of: 10% 18% 30% <b>36%</b>
cream. a. b. <b>c.</b>	cream is produced by removing the water from pasteurized milk and/or. Dry cream is required to contain a minimum of: 18% fat 30% fat 40% fat 75% fat
cream. a. b. c.	cream is produced by removing the water from pasteurized milk and/or. Dry cream will have a maximum milk fat of for economic factors. 18% 30% 40% 75%
a. <b>b.</b> c.	ermilk is the product resulting from: Addition of extra fat to raw fluid milk  Removal of the butter (fat particles) form raw fluid milk  Heating of both butter and milk to facilitate the blending of them together  Artificial product produced using non-saturated vegetable oils
a. b. c.	states dominate the total U.S. cheese production. These two states are: Texas and California Texas and Florida New York and Wisconsin Wisconsin and California

- 167) Some soft serve frozen dairy products have replaced milk fat with:
  - a. Peanut butter
  - b. Honey
  - c. Fruits
  - d. Vegetable oil
- 168) By FDA definition of an imitation product, which of the following is NOT true:
  - a. Taste like the real product it represents
  - b. Has the same nutritional value as the real product it represents
  - c. Looks like the real product it represents
  - d. Imitation products are not regulated by the FDA
- 169) A substitute product by FDA definition meets all of the following statements except:
  - a. Taste like the real product it represents
  - b. Has the same nutritional value as the real product in replaces
  - c. Looks like the real product it represents
  - d. Imitation products are not regulated by he FDA
- 170) Some dairy food products have a "REAL" seal on the package. This seal cannot be placed on a package that does NOT adhere to the following standards.
  - a. Produced from U.S. milk
  - b. Meets federal and state standards
  - c. Imitation or substitute foods
  - d. Produced from NON-organic sources
- 171) Osteoporosis may be reduced by consuming adequate quantities of milk and/or milk products. Osteoporosis is the:
  - a. Inflammation of the skin cells causing hair loss and scaling of the skin
  - b. Deterioration of the soft tissue in the retina, leading to blurry vision and poor eye sight
  - c. Loss of bone mass due to decrease in the bone matrix and minerals
  - d. Development of a hard calloused layer of skin upon the sole of the foot
- 172) Properly processed UHT milk may be stored at room temperature for:
  - a. 24-28 hours
  - b. 10-15 days
  - c. Several weeks
  - d. 6 months
- 173) Milk sold through commercial outlets is certified to be from herds free of:
  - a. B.S.T.
  - b. Displaced Abomasums
  - c. Broken Udder Suspensory Ligaments
  - d. Tuberculosis

should <b>a.</b> b. c.	nans may contract from using raw cows' or goats' milk, d the animals have brucellosis.  Undulant fever  Mumps  Whooping cough Night blindness
exam <sub>l</sub> a. b. c.	is produced from female's mammary glands. These mammary glands are ples of a: Adrenal gland Excretory gland Absorbatory gland Exocrine gland
<b>a.</b> b. c.	secretory tissue within the mammary gland is a grapelike structure called: <b>Alveoli</b> Clitoris Glanus cistern Annular ring
a. b. c.	California Mastitis Test (CMT) asks that you used onlymilk. Colostrum Milk after dry-off The first stream during milking The 2 <sup>nd</sup> stream during milking
a. b. <b>c.</b>	many cc's of milk is required for the CMT? 6 cc 4 cc 2 cc ½ cc
a. <b>b.</b> c.	CMT should be read within  10 sec  20 sec  30 sec  40 sec
a. b. <b>c.</b>	at is the healthiest range for somatic cell counts? 400,000-1,200,000 200,000-400,000 0-200,000 5,000,000+

rised and Finalized 1-19-12	
<ul> <li>181) If the CMT has a somatic cell count of 1,200,000 to 5,000,000 what is the interpretation?</li> <li>a. Serious mastitis</li> <li>b. Subclinical mastitis</li> <li>c. Negative (healthy)</li> <li>d. None of the above</li> </ul>	
<ul> <li>182) What does HACCP stand for?</li> <li>a. High Altitude Computer Control Protocol</li> <li>b. High Aptitude Critical Consideration and Punctuality</li> <li>c. Help Animals in Confined Conditions and Preserves</li> <li>d. Hazard Analysis and Critical Control Points</li> </ul>	
183) Milk must be help at 191 degrees F for to be considered pasteurized a. 30 minutes b. 1 second c. 2 seconds d. 5 minutes	
<ul> <li>184) According to HACCP, what is a receiving station?</li> <li>a. Where supplies are received</li> <li>b. Where trucks receive milk</li> <li>c. Anywhere raw milk is received, handled, stored, etc</li> <li>d. Where cows enter to be milked</li> </ul>	
<ul> <li>185) How often will HACCP inspect each Dairy Farm?</li> <li>a. A minimum of every 6 months</li> <li>b. A minimum of once each year</li> <li>c. A minimum of once each month</li> <li>d. A minimum of every 2 years</li> </ul>	
<ul> <li>186) When sanitizing milking equipment with water, the temperature must be a minimum of 170 degrees F and the utensils are to be under the flow of water f minutes.</li> <li>a. 10</li> <li>b. 15</li> <li>c. 1</li> </ul>	or

- 187) Milk protein allergies are a form of milk intolerance. These generally occur only in infants and is usually outgrown by:

d. 5

- a. 6 month of age
  b. 12 months of age
- c. 18 months of aged. 24 months of age

- 188) Low levels of the enzyme lactase may lead to lactose intolerance. Symptoms of lactose intolerance include ALL of the following EXCEPT:
  - a. Headaches
  - b. Nausea
  - c. Diarrhea
  - d. Abdominal cramps
- 189) The maximum moisture content of Cheddar cheese is:
  - a. 12%
  - b. 23%
  - c. 30%
  - d. 39%
- 190) An example of an extra hard cheese is:
  - a. Parmesan
  - b. Muenster
  - c. Ricotta
  - d. Brie
- 191) To add the 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
- 192) What is the average fat content of Brie?
  - a. 15%
  - b. 30%
  - c. 45%
  - d. 65%
- 193) Cream cheese is different from cottage cheese because:
  - a. Cream cheese is an acid curd and cottage cheese is not
  - b. Cream cheese is made from cows' milk and cottage cheese is not
  - c. Cream cheese requires a started culture of bacteria and cottage cheese does not
  - d. All of the above are true for both Cream cheese and cottage cheese
- 194) Gouda can be described by all of the following except:
  - a. Semi-hard
  - b. Yellow colored
  - c. Rind coating
  - d. Tart flavor

•	iterey Jack cheese has a maximum moisture content of%
	24
_	36
	44
d.	60
196) To r	nake Mozzarella cheese the pasteurized milk is curded at degrees F.
a.	45
b.	88
C.	145
d.	190
197) The	advantage of making processed cheese is:
a.	Better taste
b.	Marketing
C.	Extended shelf-life
d.	All of the above
198) The	current U.S. per capita consumption of milk is approximately gallons
per ye	ear.
a.	15
b.	20
	25
d.	28
•	ay, an average dairy cow produces approximately quarts of milk per
	nnually.
	5500
	6500
	6800
d.	8800
•	hat year were Federal milk-marketing orders reformed?
	1995
	2000
	2002
d.	2004
•	marketed, today as low-fat milk has no more than% milk fat.
	3.25
	2.5
	2
d	1

milk.	whey proteins in milk constitutes about% of the protein found in 10
b.	15
	<b>18</b> 20
203) Adol day.	lescents have a recommendation of milligrams of calcium per
	1000 1200
	<b>1300</b> 1500
interna	amin A is added to milk, it must be at a level of no less than ational units (I.U.) per quart. 400
	1000 1500
	2000
a.	
	15 <b>18</b>
d.	25
a.	t whipping cream has a minimum of% milk fat. 18
	<b>30</b> 35
d.	40
	ay, milk that has been ultra pasteurized must have been heated at or above _degrees F for at last seconds.  191, 2
b.	212, 3
	260, 2 <b>280, 2</b>
cottag	kes approximately pounds of skim milk to make a pound of dry curd to be cheese.
	4.3 <b>7.3</b>
C.	7.8 8.6
u.	0.0

<ul> <li>209) It takes approximatelypounds of skim milk to make one pound of non-dry-milk.</li> <li>a. 10</li> <li>b. 11</li> <li>c. 12</li> <li>d. 20</li> </ul>	-fat
<ul> <li>210) The leading state in 2009 in pounds of milk per dairy cow was:</li> <li>a. New Mexico</li> <li>b. California</li> <li>c. Arizona</li> <li>d. Wisconsin</li> </ul>	
211) The national average milk production per cow in the U.S. is approximately pounds per year.  a. 18,400 b. 19,500 c. 20,500 d. 22,600	
212) Nearly% of the U.S. milk supply is used in the production of chees a. 15 b. 30 c. 35 d. 40	se.
213) Fluid milk accounts for% of the U.S. milk supply. a. 15 b. 20 c. 22 d. 25	
214) The top ten states in the U.S. now account for about% of the total management supply.  a. 50 b. 60 c. 65 d. 75	ilk
215) The leading state in total milk production is?  a. Wisconsin b. Minnesota c. California d. New York	

sales	?
a.	Flavored milk
b.	Reduced/low-fat milk
	Non-fat milk
d.	Whole milk
entire a. b. c.	cream, including both hard and soft serves, represents% of the frozen dairy product market.  20-22  25-26  28-30  30-32
a. b. c.	ch month during the year is the highest production month for ice cream?  March September June August
secon a. b. c.	fornia is the leading state in production of ice cream, which state was d? Texas Indiana Minnesota Colorado
chees a. b. c.	ch of the following states listed is NOT in the top five for production of e? Idaho Wisconsin Minnesota New York
of all l a. b. c.	top five state in the production of cheese accounted for almost% J.S. cheese production. 29 42 51 69

216) Which fluid milk product accounted for the largest use of fluid milk production

222) The	largest production of Italian cheese went to the production of cheese.
a.	Cheddar
	Brie
C.	Mozzarella
_	Provolone
produ	ch one of the following "selected dairy products" has the greatest ction in the U.S.?
	Non-fat dry milk Butter
	Yogurt
	Evaporated milk
a. b. c.	pound per capita of reduced and low-fat milk was pounds/year.  32 45 50 85
225) The	largest increase per capita in all dairy products in 2009 was:
	Cheese
	Yogurt
	Low-fat milk
d.	Ice cream
produ a. b. c.	ording to USDA's economic research service, total per capita of all fluid cts was approximately pounds.  110 137 163 177
soft a	roximately% of the frozen dessert market was ice cream. (Hard and not low-fat/non-fat)
	56
	60.5
	70.7
a.	86.7
-	e than % of American household purchase cheese; including cream
chees	
	69
	78
	86
d.	96

a. b. c.	ese consumption in the U.S. was approximatelypounds per capita.  32  36  45  51
a. b. c.	two most popular cheese varieties in the U.S. are? Cheddar and Monterey Jack Cheddar and Colby Cheddar and Mozzarella Cheddar and Swiss
a. b. c.	Italian cheese with the second largest per capita consumption was? Parmesan Provolone Romano Ricotta
a. b. c.	largest supermarket sales of cheese by type was:  Cheddar  Mozzarella  Processed American  Colby Jack
down a. b. c.	009, the annual farm milk price was about \$ per hundredweight, \$5.60 per hundredweight from 2008. 10.80 12.80 14.10 15.50
avera a. b. c.	milk-feed price ration (which relates the value of milk to the cost of feed) gedin 2009 far below the 1999-2008 values.  1.78  1.9  2.69  2.89
to 200 a. b. c.	minimum price for all four classes of milk from the farm in 2009 compared 08: Increases slightly Increased a large amount Remained the same Decreased

•	average Federal order price per hundredweight in 2009 for class 1 milk dollars per hundredweight.
	10.89
	11.36
_	13.10
	14.40
u.	14.40
237) The	2009 dairy export value was over 2 billion dollars down approximately % over 2008.
a.	28
b.	30
C.	40
d.	52
238) The	largest total exported dairy product by volume in 2009 was:
a.	Cheese and curd
b.	Dry whey
C.	Non-fat dry milk
d.	Lactose
000\ TI	
•	country that was the largest purchaser of U.S. dairy products in 2009 was?
	Canada
	China
C.	Mexico
d.	Japan
240) Five	countries accounted for approximately% of the total U.S. dairy
expor	ts.
	39
b.	59
C.	69
d.	79
•	largest U.S. exports of a dairy product by dollars were?
	Non-fat dry milk
	Cheese and curd
	Whey and whey products
a.	Lactose
which a.	U.S. also imports certain dairy products. The dairy products imported accounted for the largest dollar value was?  Dry whey
	Milk protein concentrates
	Casein and casein products
d.	Cheese and curd

243) Behir	nd the U.S., the country, which averages the largest production per cow, is
b. c.	<b>Japan</b> Canada Australia Argentina
produc a. b. c.	country which imported the largest amount of U.S. ice cream and related ts was: Canada Japan Russia <b>Mexico</b>
245) The r a. : b. : c. : d. :	33 40
is a pas a. b. <b>c.</b>	cheese that has maximum moisture of 45% and a minimum of 45% fat and sta filata cheese is? Swiss Mozzarella Provolone Cheddar
	45 <b>96</b>
a. b. c.	h of the following cheeses did NOT originate in Italy? <b>Edam</b> Parmesan  Provolone  Mozzarella
of	33

<ul> <li>250) If the dairy ingredients to be pasteurized have a fat content of 10% or more, the specified temperature shall be increased bydegrees F.</li> <li>a. 2</li> <li>b. 3</li> <li>c. 5</li> <li>d. 10</li> </ul>	ne
251) Which of the following cheese is a unripen variety?  a. Bleu b. Cream c. Brie d. Parmesan	
252) One serving (8oz) of milk has aboutmilligrams of calcium. a. 90 b. 150 c. 200 d. <b>250</b>	
253) Ice cream must weight a minimumpounds to the gallon. a. 3.5 b. 4.5 c. 5.0 d. 5.25	
<ul> <li>254) The natural lipase enzyme contained in all raw milk is kept away from milk fat globules, thus preventing development of rancidity because the:</li> <li>a. Fat globule membrane, a protective layer, covers the fat globules</li> <li>b. The major protein, casein, ties up the lipase</li> <li>c. Fat globules are too small to attract the enzyme until they are homogenized</li> <li>d. Enzyme has to be activated by the heat of pasteurization</li> </ul>	
<ul> <li>255) Cooperatives Working Together (CWT) is theprogram that aims to strengthen and stabilize milk prices by balancing supply and demand.</li> <li>a. State funded</li> <li>b. Farmer-funded</li> <li>c. Federal-funded</li> <li>d. None of the above</li> </ul>	
<ul> <li>256) How long should Calf hutches be left empty between calves to prevent diseas spread?</li> <li>a. 2 to 3 days</li> <li>b. 3 weeks</li> <li>c. 10 to 14 days</li> <li>d. 1 month</li> </ul>	е

- 257) What stomach is a magnet typically used in to remove metal objects that cause Hardware disease?
  - a. Abomasum
  - b. Omasum
  - c. Reticulum
  - d. Rumen
- 258) Body condition scoring is one way to measure cow health. What is the ideal score for a milking cow?
  - a. 1
  - b. 3
  - c. 4
  - d. 5
- 259) 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. Both a & b
- 260) For every pound of dry matter, cows should consume how much water?
  - a. 1 to 2 pounds
  - b. 4 to 5 pounds
  - c. 10 to 15 pounds
  - d. 25 to 30 pounds
- 261) Which of the following fatty acids found in milk have been associated with health benefits in humans?
  - a. Oleic acid
  - b. Conjugated Linoleum Acid
  - c. Butyric Acid
  - d. Lactic Acid
- 262) What technology destroys 90 percent of BST found in milk?
  - a. Pasteurization
  - b. Homogenization
  - c. Hormonization
  - d. Reverse osmosis
- 263) What method of manure application is best to fully utilize nutrients, reduce risk of runoff, and lower odor complaints?
  - a. Injecting
  - b. Broadcasting
  - c. Surface application
  - d. Flood application

- 264) At refrigerated temperatures, butter will begin to lose some of its natural flavor after how long?
  - a. Within 2 months
  - b. Within 6 months
  - c. Within 1 year
  - d. Butter will not lose its natural flavor when stored properly
- 265) Why do protein and amino acids go hand in hand?
  - a. Amino acids and proteins need to be found in a 2:1 ratio in all diets
  - b. Proteins are the building blocks of amino acids
  - c. Amino acids are the building blocks of protein
  - d. Proteins link to amino acids in bone formation
- 266) When performing a CMT test, watch for color changes and gel formation. Milk from a normal guarter does which of the following?
  - a. Forms a gelatinous mass clinging together in a strong reaction
  - b. Flows freely without change in viscosity
  - c. Forms small clumps in a moderate reaction
  - d. Turns a deep purple color
- 267) New food plate guidelines recommended how many servings of dairy products per day?
  - a. 5
  - b. 2
  - c. 4
  - d. 3
- 268) What disease is caused by a worm that is taken up as larvae by cattle eating grass, penetrates the gut, and eventually matures to adult form in the respiratory tract?
  - a. Tuberculosis
  - b. Heartworm
  - c. Trichinosis
  - d. Lungworm
- 269) Which of these is a good nutritional strategy to maintain milk production in hot weather?
  - a. Feed more grain
  - b. Increase protein concentration
  - c. Add more fat
  - d. Milk slower

- 270) There are four classes of milk under federal orders and they provide for
  - a. Classification according to the relative safety of each class
  - b. Payment for milk according to its quality
  - c. Payment for milk according to its cost of production
  - d. Payment for milk according to its end use
- 271) Based on ice cream consumption figures, the second most popular flavor is
  - a. Strawberry
  - b. Cookies n' cream
  - c. Vanilla
  - d. Chocolate
- 272) Under Federal milk marketing orders Class III milk is used to make
  - a. Ripened cheeses
  - b. Cottage cheese
  - c. Butter and dry milks
  - d. Ice cream
- 273) According to a report compiled by the Institute for Food Technologists, is now America's favorite at-home snack.
  - a. Cheese
  - b. Yogurt
  - c. Ice cream
  - d. Chocolate Milk
- 274) In regards to commodities, what best defines hedging?
  - a. Taking no action
  - b. The act of buying and selling stock
  - c. The act of protecting yourself against price possibilities
  - d. The act of buying and selling commodities
- 275) When it comes to fertilizing fields, what three nutrients are known as the "secondary nutrients"?
  - a. Calcium, nitrogen, and water
  - b. Calcium, sulfur, and magnesium
  - c. Nitrogen, phosphorus, potassium
  - d. Potassium, phosphorus, and zinc
- 276) A fluid milk product that contains at least 8.25% nonfat milk solids and no more than 0.5 gram of fat in a single serving of 8 fluid ounces is called
  - a. Milk
  - b. Low-fat milk
  - c. Nonfat milk
  - d. Reduced fat milk

- 277) What household cleaning agent has been found to cut odor in livestock manure by USDA-ARS scientists?
  - a. Baking soda
  - b. Borax
  - c. Dish soap
  - d. Window cleaner
- 278) The off-flavor that is seldom found except in pasteurized milk that has been stored too long is
  - a. Foreign
  - b. Unclean
  - c. High acid
  - d. Feed
- 279) According to the American Veterinary Medicine Association, what is the preferred method of dehorning cows?
  - a. Caustic paste
  - b. Cauterizing veins
  - c. Gauging
  - d. Disbudding
- 280) What field vegetable can be a cheap replacement for soybean meal and corn grain?
  - a. Sugar beets
  - b. Sweet corn
  - c. Field peas
  - d. Almonds
- 281) How many years does it take for a dairy farm to fully transition to become certified organic?
  - a. 1
  - b. 3
  - c. 5
  - d. 7
- 282) What is the largest cost on most U.S. dairy farms?
  - a. Feed
  - b. Fuel
  - c. Labor
  - d. Veterinary fees

283) In cows,	salmonellosis	infections ar	e most	common	in those	that have	calved
within							

- a. 2 days
- b. 10 days
- c. 20 days
- d. 50 days
- 284) The Standard of Identity for ice cream requires that it contain a minimum of \_\_\_\_\_ percent milk fat
  - a. 10
  - b. 12
  - c. 14
  - d. 16
- 285) Which of the following is an example of value-added agriculture?
  - a. A farm that markets an "Ozark brand" of cheese
  - b. Purchasing milk from a local producer
  - c. Using a custom heifer raiser
  - d. Drinking raw milk
- 286) Farm marketing cooperatives have been in existence since the early
  - a. 1800's
  - b. 1900's
  - c. 1700's
  - d. 1920's
- 287) Federal Milk Marketing Orders affect prices consumers pay for fresh milk in grocery stores by:
  - a. Adjusting them according to demand
  - b. Adjusting them according to supply
  - c. Leaving them to be determined in the marketplace
  - d. Setting them only once yearly
- 288) What percent of exported U.S. dairy products are sold without a subsidy?
  - a. 0 %
  - b. 50 %
  - c. 80 %
  - d. 95 %
- 289) Dairy farmers receive what percent of the sale of a half-gallon of milk?
  - a. 46 %
  - b. 15 %
  - c. 26 %
  - d. 96 %

- 290) Demand for dairy products is typically the lowest in
  - a. Spring
  - b. Summer
  - c. Fall
  - d. Winter
- 291) What percent of today's youth consume the recommended amount of dairy products?
  - a. 10%
  - b. 30%
  - c. 50%
  - d. 75%
- 292) Milk that is used to make butter is classified as which class in Federal Orders?
  - a. Class I
  - b. Class II
  - c. Class III
  - d. Class IV
- 293) Milk prices on average are the lowest in
  - a. Summer
  - b. Fall
  - c. Spring
  - d. Winter
- 294) The Federal Orders of today are based on the Agricultural Agreement Act of
  - a. 1927
  - b. 1947
  - c. 1937
  - **d.** 1966
- 295) The practice that distributes payments for milk among the producers within a specific Federal Milk Marketing Order is called
  - a. Pool pricing
  - b. Classified pricing
  - c. Support pricing
  - d. Differential pricing
- 296) What piece of legislation made farmer cooperatives legal?
  - a. Sherman Act
  - b. Capper-Volstead Act
  - c. Farm Bill
  - d. Barkley Act

,	pe labeled made with organic ingredients a dairy product must
	in percent or more organic ingredients.
	100
	90
	80
d.	70
•	reason that testing of milk is done in laboratories of the USDA Milk Market
Order	
	To assure safety of the supply
b.	To provide accurate accounting for amounts of milk solids sold in the order
C.	To make sure food and drug law is followed
d.	To provide data for the US Statistical Reporting Service
299) Milk	traits, i.e. fat, protein, SNF, and etc., tend to have a heritability of about
a.	Less than 10%
b.	20-30%
	40-50%
	More than 50%
300) Cow	s treated with BST typically show an increase of in daily milk
produ	ction.
•	2%
b.	10%
C.	20%
d.	30%