Milk Quality and Products Career Development Event

Milk Production

1.		anufacturers realize greater yield	ds from milk	when the son	natic cell counts are low and			
	the	protein content is low						
	A. B.	milkfat content is low						
	Б. С.							
	D.	·						
2.	98% of the	e microorganisms that call a cow	's rumen sto	omach home a	re what type?			
	A.	-	C.	diatoms				
	В.	bacteria	D.	fungi				
3.	The micro	biological standard for Grade A (unpasteuriz	ed milk is	bacteria or less per			
	milliliter o	f milk.						
	A.	50,000	C.	100,000				
	В.	75,000	D.	750,000				
4.	According	to the National Animal Health N	/lonitoring S	system data, w	hat do most farmers site as			
	the most o	common criteria for weaning a ca	alf?					
	A.	age						
	В.	starter intake						
	C.	weight						
	D.	space constraints						
5.	The major	cause of salty flavor in milk is						
	Α.	the large intake of salt by the	cow					
	В.	mastitis						
	C.	exposure to sunlight						
	D.	bacteria						
6.	Which of t	Which of the following fatty acids found in milk have been associated with health benefits in						
	humans?							
	A.	oleic acid						
	В.	conjugated linoleic acid						
	C.	butyric acid						
	D.	lactic acid						
7.	Stainless s	teel equipment is used to produ	ice, store an	d process milk	because			
	A.	surfaces do not corrode easily						
	В.	stainless steel is a relatively lo	w-cost meta	al				
	C.	<i>,</i> ,	hed					
	D.	stainless has a dull finish						

8.	Lactose is the principal in milk.								
	A.	mineral	C.	fat					
	В.	protein	D.	carbohydrate					
9.	Excessive agitation of raw milk is a common cause of the off-flavor								
	A.	oxidized	C.	rancid					
	В.	acid	D.	metallic					
10.	Historically are	·		transmissible to man through raw milk					
	A.	tuberculosis and brucellosis							
	В.	brucellosis and scarlet fever							
	C.	scarlet fever and Q fever							
	D.	tuberculosis and anthrax							
11.		is the test used to check	for wate	r added to milk.					
	A.	acid degree value	C.	Kjeldahl					
	В.	cryoscope	D.	titratable acidity					
12.	_	eurizing milk, the minimum tempo	erature th	at raw milk must be heated to for 15					
		111 degrees F	C.	161 degrees F					
	В.	121 degrees F	D.	171 degrees F					
13.	What is a t	What is a test used to screen for antibiotics in milk?							
	A.	direct microscopic	C.	Kjeldahl					
	В.	cryoscope	D.	Charm					
14.		When cooling milk on the farm, what temperature must the bulk storage system reach within two hours of the end of a milking?							
	A.	> 40 degrees F	C.	< 45 degrees F					
	В.	< 40 degrees F	D.	< 38 degrees F					
15.	Distillers g	rains provide primarily what two r	nutrients t	to a dairy cattle diet?					
	A.	carbohydrates and minerals	C.	fat and protein					
	В.	vitamins and fat	D.	fatty acid and minerals					
16.	The princip	The principal protein in milk is							
	A.	casein	C.	crude protein					
	В.	whey protein	D.	lactoglobulin					
17.	Raw milk s States.	omatic cell count must be o	r less to r	neet Grade A standards in the United					
	A.	100,000	C.	400,000					
	В.	250,000	D.	750,000					

18.	In a herd milked three times a day, no cows should have a long lag time. The time from when the cow is stimulated to milker attachment should be less than seconds.							
					seconds.			
	A.		C.					
	В.	90	D.	150				
19.	What is th	e number one reason for cullii	ng cows on An	nerican dairy fa	arms, according to National			
	Health Mo	onitoring System data?						
	A.	lameness						
	В.	reproduction problems						
	C.	high somatic cell count						
	D.	low production						
20.	The off-fla	vor in milk generally caused b	y exposure to	sunlight or fluc	orescent light is			
	Α.	· rancid	C.	acid				
	В.	oxidized	D.	malty				
21.	The docun	nent used by the U.S. dairy ind	lustry that cor	ntains the rules	for producing today's fresh			
	pasteurize	d milk supply is	•					
	A.	The Code of Federal Regulat	ions					
	В.	Standard Methods for the Examination of Dairy Products						
	C.	The Grade A Pasteurized Milk Ordinance (PMO)						
	D.	The Codes Alimentarius of the	he World Hea	Ith Organizatio	n			
22.	Somatic ce	Somatic cells occurring in large numbers in milk indicates						
	A.	a cow has mastitis						
	В.	cows consume too much protein						
	C.	milking machines are dirty						
	D.							
23.	People wh	o consume full-fat dairy are le	ess likely to de	velop what dis	ease?			
	A.	Tuberculosis	C.	Cancer				
	В.	Diabetes	D.	Pneumonia				
24.	Typical far	m milk consists of	•					
	A.	87.6% water, 3.7% fat, 3.29	% protein, 5.5	5% other solids				
	В.	50.6% water, 3.7% fat, 4.29	% protein, 41	.5% other solid	s			
	C.	80.6% water, 6.7% fat, 4.29	% protein, 8.5	% other solids				
	D.	84.6% water, 4.7% fat, 6.29	% protein, 4.5	5% other solids				
25.	What horr	mone, which blocks the let-dov	wn of milk, is	released into th	ne cow's bloodstream when			
	it is stress	ed?						
	A.	oxytocin						
	В.	parathyroid hormone						
	C.	adrenaline						
	D.	gonadotrophin-releasing ho	rmone					

26.	Poor quality forage will cause		to decrease significantly.					
	Α.	somatic cells	C.	casein percentage				
	В.	bacteria count	D.	fat percentage				
27.	The CMT t	est detects	in raw milk.					
	Α.	bacteria	C.	somatic cells				
	В.	red blood cells	D.	antibiotics				
28.	Among the	e various food groups,	dairy products serve	as the leading source of				
	In the Ame	erican diet.						
	A.	iron	C.	carbohydrates				
	В.	magnesium	D.	calcium				
29.	The rolling	herd average is define	ed as	_•				
	A.	an average of the he	rd's fat and protein p	ercentages				
	В.	·						
	C.							
	D.							
30.	One gallor	of milk weighs approx	kimately p	oounds.				
	A.	5.5	C.	8.6				
	В.	7.8	D.	10.1				

Milk Quality and Products Career Development Event Milk Production

2017

- 1. C
- 2. B
- 3. C
- 4. A
- 5. B
- 6. B
- 7. A
- 8. D
- 9. C
- 10. A
- **11.** B
- 12. C
- 13. D
- 14. C15. C
- 16. A
- 17. D
- 18. B
- 19. D
- **20.** B
- 21. C
- 22. A
- 23. B
- 24. A
- 25. C
- 26. D
- 27. C
- 28. D
- 29. D
- 30. C

Milk Quality and Products Career Development Event Milk Marketing

31.	During 2016 the state that held a hearing to listen to testimony for a proposal to create a Federal Milk Marketing Order was								
	A.	New York	C.	California					
	В.	Wisconsin	D.	Idaho					
32.	Under Fed is called	eral Orders milk is priced based or	n the finisl	hed dairy product in which it is used. This					
	A.	minimum pricing	C.	creative pricing					
	В.	maximum pricing	D.	classified pricing					
33.	The actual	The actual milk check amount received by a dairy farmer is called the							
	A.	milk -feed ratio price	C.	Federal Order price					
	В.	cooperative bonus premium	D.	mailbox price					
34.	What piece	e of legislation made farmer coope	eratives le	gal?					
	Α.	Capper-Volstead Act	C.	Farm Bill					
	В.	Sherman Act	D.	Barkley Act					
35.	A primary reason for establishing minimum farm milk prices through the Federal milk orders is								
	Α.	to insure all dairymen have a ma	arket for n	nilk					
	В.	to insure all processors have adequate milk for manufacture of butter and feeds							
	C.	to insure an adequate supply of	-						
	D.	to provide federal control of the							
36.	Dairy consumption growth in the United States is only 0.8 percent, but foreign consumption is								
	growing much more quickly. Which country has increased in dairy consumption the most?								
	Α.	Mexico	C.	China					
	В.	New Zealand	D.	European Union (EU)					
37.	Which cheese variety produced in the U.S. is the most commonly consumed in recent years?								
	A.	Cheddar	C.	Italian style cheese					
	В.	Mozzarella	D.	Queso fresco					
38.	=	ducer would receive the maximune milk was used to make	=	milk delivered within a milk market order					
	Α.	dry whole milk	C.	mozzarella cheese					
	В.	ice cream		fluid pasteurized milk					
39.	Federal Mi	ilk Marketing Orders are	pro	ograms that define the terms under which					
		milk within a specific marketing or		_					
	Α.	mandatory	C.	-					
	В.	•	D.	elected					
		• •							

40,	Over half of the top 50 U.S. dairy cooperatives belong to a federation that is dairy farmers' chief						
	lobbying v	oice in the nation's capital. What is tl	ne nar	ne of the federation?			
	A.	International Dairy Federation					
	В.	Dairy Farmers of America Federation	n				
	C.	National Milk Producers Federation					
	D.	International Dairy Foods Association	n				
41.	To make o	ne pound of Cheddar cheese requires		oximately pounds of whole milk.			
	A.	8	C.	22			
	В.	10	D.	44			
42.	A Federal I	Milk Marketing Order is authorized or	nly if t	wo-thirds of the affectedmilk to			
	the propos	sed marketing area approves its imple	ment	ation.			
	A.	dairy cooperatives supplying					
	В.	producers supplying					
	C.	cheese processors manufacturing					
	D.	handlers processing					
43.	Federal Mi	ilk Marketing Orders provide	_ to d	istribute moneys fairly among producers			
	supplying	milk to a market.					
		a milk cooperative					
	В.	a board of commissioners					
	C.	supply-demand equalization					
	D.	a producer settlement fund					
44.	_			ional Academy of Sciences, all people need			
	at least	milligrams of calcium per	day.				
	A.	10	C.	•			
	В.	100	D.	1,000,000			
45.				a farm's animal welfare practices against			
	the industry recommendations. It is operating as a partnership of the National Milk Producers						
	Federation and Dairy Management Inc.						
	A.	National F.A.R.M. program (Farmers	s Assu	ring Responsible Management)			
	В.	National Dairy Checkoff Program					
	C.	Agriculture's Animal and Plant Healt	th Insp	pection Service (APHIS)			
	D.	Animal Welfare Act (AWA)					
46.	=			cers in a Federal Milk Market is called,,,,			
	Α.	quota options	C .				
	В.	base-excess pricing	D.	pooling			
47.	_	e total dollars a dairy has in assets by	the n	umber of cows determines which			
	economic		_				
	Α.	equity	C .	•			
	В.	total investment per cow	D.	debt to asset ratio			

	of the follo	owing special characteristics?						
	A.	low volume milk production per c	ow					
	В.	low protein content						
	C.	high somatic cell count						
	D.	low bacteria count						
49.		is an effective exercise recov	ery due	to its powerful nutrient package that				
	supplies th	ne nutrition the body needs after a v	workout.	It has carbohydrates to help refuel the				
	body; prot	ein to help reduce muscle breakdov	vn and s	timulate growth; and fluid and				
	electrolyte	es to aid in rehydration. Drinking it	after resi	istance training has been show to increase				
	the body's	ability to make new muscle and ma	ay help ir	mprove body composition.				
	A.	Chocolate milk						
	В.	Greek yogurt						
	C.	Gatorade						
	D.	Whey protein concentrate						
50.	Since 1984	President Ronald Reagan proclaim	ed a Nat	ional Ice Cream Month. It has been				
	celebrated	l annually, every	•					
	A.	June	C.	August				
	В.	July	D.	September				
51.		USDA Farm Service Agency administers that offers dairy producers a catastrophic						
	coverage when the difference between the all-milk price and average feed costs falls below a							
	specified l							
	Α.	0						
	В.	Cooperatives Working Together						
	C .	Federal Market Orders						
	D.	DEIP Exports						
52.		eting cooperatives						
	A.	are not permitted by Federal Orde						
	В.	provide marketing power for dairy	y farmers	S				
	C.	control Federal Orders						
	D.	operate only outside Federal Orde	rs					
53.	Most dairy	Most dairy cows are milked two or three times per day. On average, a cow will produce						
	Α.	gallons of milk each day. 1 to 2	C.	15 to 16				
	В.		D.					
	Б.	8 10 9	D.	20 (0 21				
54.	-	_		rs for milk utilized in the manufactured				
	-	_		by location. The highest price paid for				
	Class I mill	c is in the regions of t	the Unite					
	A.	Southeast	C.	Northwest				
	В.	Midwest	D.	Northeast				

Marketing cooperatives often offer incentives to dairy farmers for producing milk having which

48.

55.	Dairy is the second largest organic food category accounting for what percentage of total organic food sales?						
	A.	5 percent	C.	25 percent			
	В.	15 percent	D.	35 percent			
56.	Which of t	he following flavors of ice cream is the	mos	t popular, by sales volume?			
	A.	Raspberry	C.	Vanilla			
	В.	Strawberry	D.	Chocolate			
57.	In a milk m	narket with four classes of milk, Class I	II milk	c is commonly used for			
	A.	fluid products					
	В.	cottage cheese and cream products					
	C.	cheese					
	D.	butter and dry products					
58.	_	to the Dietary Guidelines for Americar		· · · · · · · · · · · · · · · · · · ·			
	Α.	less than 12 percent	C.	85 percent			
	В.	50 percent	D.	90 percent			
59.	Milk has more protein than you may think. An 8-ounce glass of real milk has times more protein than a similar sized serving of a plant-based beverage, like almond milk. In addition, milk protein is a complete protein, while most plant protein sources are missing some of the amino acids your body needs.						
	A.		C.	20			
	В.	8	D.	31			
60.			ıse	can testify and can			
	cross-exan	nine the witness.					
	A.	only Federal employees, no one					
	В.	only cooperative managers, anyone					
	C.	only Federal lawyers, anyone					
	D.	any interested party, anyone					

Milk Quality and Products Career Development Event Milk Marketing

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- 31. C
- 32. D
- 33. D
- 34. A
- 35. C
- 36. C
- **37.** B
- 38. D
- 39. C
- 40. C
- 41. B
- **42.** B
- 43. D
- 44. C
- 45. A
- 46. D
- **47.** B
- 48. D
- 49. A
- **50.** B
- 51. A
- **52.** B
- 53. B
- 54. A
- 55. B
- 56. C
- 57. C
- 58. D
- 59. B
- 60. D

Milk Quality and Products Career Development Event Milk Production

1.	Antibiotics	are not permitted in milk because	e					
	A.	they artificially lower bacteria co	ounts					
	В.	off flavors are produced						
	C.	fat becomes rancid						
	D.	some persons are hypersensitive	e to certai	n antibiotics				
2.	Adulterati	on of milk with water is unlawful a	and can be	e detected by testing for				
	A.	titratable acidity	C.	a high freezing point				
	В.	total milk solids	D.	somatic cells				
3.	The ideal o	cleaning agent for removing milkst	one from	equipment surfaces is				
	A.	acidic detergent	C.	chelating agent				
	В.	phosphate	D.	surfactant				
4.	The micro	biological standard for unpasteuriz	zed Grade	A milk is bacteria or less per				
	milliliter o	f milk						
	A.	50,000	C.	100,000				
	В.	75,000	D.	750,000				
5.	The princi	pal protein in milk is						
	A.	whey protein	C.	crude protein				
	В.	casein	D.	lactoglobulin				
6.	Compared to a Holstein cow, on a per gallon of milk basis, the average Jersey cow produces							
	A.	more fat and total milk solids		less fat and total milk solids				
	В.	more fat but less total solids	D.	less fat but more total milk				
7.	Raw milk	somatic cell count must be	or less t	o meet Grade A government standards in				
	Raw milk somatic cell count must be or less to meet Grade A government standards in the United States.							
	Α.	100,000	C.	400,000				
	В.	250,000		750,000				
8.	The activity/inactivity of the enzyme is the basis for confirming the adequacy of							
	pasteuriza	tion of milk						
	A.	phosphatase	C.	peroxidase				
	В.	lipase	D.	catalase				
9.	Aflatoxins	sometimes found in milk are prod		•				
	A.	bacteria	C.	molds				
	В.	viruses	D.	yeast				

10.	Poor quality forage will cause		in milk to decrease significantly.				
	A.	somatic cells	C.	casein percentage			
	В.	bacteria counts	D.	fat percentage			
11.		emperature must a farm bulk tank, or on the bours of the end of milking?	coolin	ng plate, have the capacity to chill milk			
	Α.	≥ 50 °F	C.	≈40 °C			
	В.	≤45 °F	D.	≤42° <i>K</i>			
12.	The Califo	rnia Mastitis Test (CMT) test detects _		in raw milk.			
	A.	bacteria	C.	somatic cells			
	В.	red blood cells	D.	antibiotics			
13.	The off-fla	vor in milk generally caused by exposi					
	A.	rancid	C.	acid			
	В.	oxidized	D.	malty			
14.	Raw milk somatic cell count must be or less to meet export standards required by the						
	-	Union (EU).	_				
	Α.	100,000	C.	400,000			
	В.	250,000	D.	750,000			
15.		ng a cow's teats helps control					
	A.		C.	3			
	В.	milk flow	D.	antibiotics			
16.	What milk quality test measures organisms that grow at low temperatures, called						
		ophic organisms, which often cause pr					
	A.	Standard Plate Count	C.	•			
	В.	Coliform Count	D.	Lab Pasteurization Count			
17.	By volume	,		percent water.			
	A.	3.7		87			
	В.	50	D.	92			
18.	What is th	e greatest milk production cost on mo	st dai	iries?			
	Α.	feed	C.	milking supplies			
	В.	labor	D.	A.I. breeding supplies			
19.	What horr	mone is naturally released by the cow	to stir	mulate milk letdown?			
	Α.	oxytocin	C.	estrogen			
	В.	progesterone	D.	adrenaline			
20.	The ability	of lipase to attack milk fat and produ	ce a r	ancid off-flavor is enhanced by			
	A.	feeding cows moldy hay					
	В.	excessive agitation of warm raw mi	lk				
	C.	exposing milk to sunlight					
	D.	poorly cleaned milking equipment					

21.	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						
	В.	Standard Methods for the Examin	ation of	Dairy Products				
	C.	The Grade A Pasteurized Milk Ord	inance (PMO)				
	D.	The Codes Alimentarius of the Wo	orld Heal	th Organization				
22.		ost important diseases of cattle tra	nsmissib	ole to man through milk are				
	A.	scarlet fever and Q fever						
	В.	tuberculosis and anthrax						
	C.	brucellosis and scarlet fever						
	D.	tuberculosis and brucellosis						
23.		n there are no clinical signs, a cow's is greater than how many cells/ml?	milk pro	duction begins to decline when its somation				
	A.	100,000 cells/ml	C.	400,000 cells/ml				
		•						
	В.	200,000 cells/ml	D.	750,000 cells/ml				
24.	The major	result of storing milk cold is the						
	A.	stopping of all bacterial growth						
	В.	slowing of bacterial growth						
	C.	killing of all bacteria						
	D.	killing of all microorganisms						
25.	componentin a cow's	lairies in the U.S. the value of milk into the late (milkfat and protein). Milkfat de diet. too much unsaturated fats not enough unsaturated fats	-					
	C.	too much fiber						
	D.	too much fatty acids						
26.	One gallor	of milk weighs approximately		_ pounds.				
	A.	5.5	C.	8.6				
	В.	7.8	D.	10.1				
27.	Milk is a major nutritional source of which mineral that combined with vitamin D and exercise builds strong bones and teeth?							
	A.	calcium	C.	phosphorous				
	В.	iron	D.	potassium				
28.	Which portion of milking procedure is recommended because it flushes potential mastitiscausing bacteria from the end of the teat canal, allows you to observe early signs of clinical mastitis and helps promote milk letdown?							
	Α.	predipping	c.	postdipping				
	В.	forestripping	D.	drying				
	D.	ioi catripping	D.	wi yilig				

- 29. 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
- 30. Cracked and blistered rubber parts of milking machine 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

Milk Quality and Products Career Development Event Milk Marketing

31.	The reason Federal Willk Warket Administrators test Grade A milk for composition and audit								
	records of	purchases by ha	andler	s is to					
	A.	ensure an adequate supply of pure and wholesome milk for the consumer							
	В.	ensure a market for milk							
	C.	help handlers	with t	heir business a	affairs				
	D.	keep governn	nent ir	nformed					
32.	A Federal I	Milk Marketing	Order	is not authoriz	ed unle	ss two-thirds	of the af	fected	
	milk to the proposed marketing area approves its implementation.								
	A.	dairy cooperatives supplying							
	В.	producers supplying							
	C.	cheese proces	sors n	nanufacturing					
	D.	handlers proc	essing						
33.	To make o	ne gallon of ice	cream	requires appro	oximate	ely pound	ls of who	le milk.	
	A.	8	В.	12	C.	22	D.	44	
34.	Which of t	he following fla	vors of	fice cream is tl	he most	popular, by	sales volu	ıme?	
	A.	Raspberry	В.	Strawberry	C.	Vanilla	D.	Chocolate	
35.	protein tha	an plant-based l	oevera	ges, like almor	nd milk.	In addition,	milk prot	times more ein is a complete ds your body need	ls.
	Α.	2	В.	8	C.	20	D.	31	
36.	As dairy cow numbers recently climbed to a 22-year high point during 2017, dairy farm numbers								
	reached a	modern-day lov	v of ap	proximately _		farms.			
	A.	30,000			C.	45,000			
	В.	40,000			D.	55,000			
37.	The Cooperatives Working Together (CWT) Program focuses on sales of what two dairy products?								
	A.	cheese and bu	itter		C.	ice cream a	nd chees	e	
	В.	yogurt and mi	lk		D.	butter and	milk		
38.	A milk pro	ducer would red	eive t	he maximum p	rice for	milk delivere	ed within	a milk marketing	
	order if all	of it was used t	o mak	e					
	A.	dry whole mill	k		C.	mozzarella	cheese		
	В.	ice cream			D.	pasteurized	d milk		

39.	What is the process called that disintegrates fat globules in milk in order to reduce the									
	separation of cream? The fat globules are typically broken down by forcing the milk through a									
	-	age at a high velo	city.							
	A.	pasteurization			C.	homogeni				
	В.	ultra-pasteuriza	ation		D.	standardiz	zation			
40.		dairy product pric		re largely det	termined	by export o	pportuniti	es and greatly	y affect	
	the milk pr	he milk price paid to farmers?								
	Α.	Nonfat dry milk and skim milk powder								
	В.	Cheese and skim milk powder								
	C.	Ice cream and whole milk								
	D.	Nonfat dry milk and yogurt								
41.	To make o	ne pound of butte	er rec	quires appro	ximately _	po	ounds of w	hole milk.		
	A.	8	В.	12	C.	22	D.	44		
42.	Dairy Prod	uct imports into t	the U	. S. comprise	ed p	ercent of U	. S. industi	y product sa	les in	
	2017. USD	A projects that pe	ercer	nt to hold ste	ady for 20	018.				
	A.	3	В.	15	C.	25	D.	30		
43.	What piece	e of legislation ma	ade fa	armer coope	ratives leg	gal?				
	Α.	Sherman Act			C.	Farm Bill				
	В.	Capper-Volstea	d Act	ŧ	D.	Barkley A	ct			
44.	Over half of the top 50 U. S. dairy cooperatives belong to a federation that is dairy farmers' chief									
	lobbying vo	ying voice in the nation's capital. What is the name of the federation?								
	Α.	International Dairy Federation								
	В.	Dairy Farmers of America Federation								
	C.	National Milk Producers Federation								
	D.	International D	airy I	Foods Associ	ation					
45.		to make ice cream		-				Class IV		
	Α.	Class I	В.	Class II	C.	Class III	D.	Class IV		
46	The estimat		- da:		ha t : aaa	dia tha Clas	- III and IV			
46.	The actual cost of producing dairy products that is used in the Class III and IV pricing formula is called the .									
	A.	milk-feed ratio	nrice	•	C.	Federal Or	der nrice			
	В.	cooperative bo	-		C. D.		-			
	Σ.	30000.00140.001	p		٥.	anc ano				
47.	Dividing th	e total dollars a d	dairv	has in assets	by the nu	ımber of co	ws determ	ines which		
	Dividing the total dollars a dairy has in assets by the number of cows determines which economic indicator?									
	Α.	equity			C.	debt per c	ow			
	В.	total investmen	nt per	cow	D.	debt to as				

48.	Under several Federal Milk Marketing Orders, milk is priced based on the amount of							
	Α.	water and free fatty acids						
	В.	mastitis and aflatoxins						
	C.	bacteria counts of milk and antibio	tics					
	D.	fat, protein, and other solids						
49.	Federal Mi	lk Market Orders provide	to dis	stribute moneys fairly among producers				
45.		milk to a market	to als	stribute moneys fairly among producers				
	A.	a milk cooperative						
	В.	a producer settlement fund						
	C.	supply-demand equalization						
	D.	a board of commissioners						
50.		-	-	ederal Milk Marketing Orders that sets				
		rices based on the finished dairy pro						
	A.	Market pricing	C.	, ,				
	В.	Classified pricing	D.	Hedge pricing				
51.	The	is a voluntary risk	k manag	gement program for dairy producers				
		-	_	L, 2018. The program offers protection to				
	dairy produ	ucers when the difference between t	the all n	nilk price and the average feed cost				
	(margin) fa	lls below a certain dollar amount sel	lected b	by the producer.				
	Α.	Milk Income Loss Contract						
	В.	Price Support Program						
	C.	Classified Pricing						
	D.	Margin Protection Program for Da	iry					
52 .	Mastitis has severe economic consequences. The high somatic cell count causes a decrease in							
·								
	A.	denaturation	C.	increase				
	В.	decrease	D.	gram-negative infection				
	В.	decrease	D.	gram-negative infection				
53.	Most dairy	cows are milked two to three times	per day	y. On average, a cow will produce				
	Gallons of	milk each day.						
	Α.	1 to 2	C.	15 to 16				
	В.	6 to 7	D.	20 to 21				
54.	The actual	milk check amount received by dairy	, farme	rs is called the				
	Α.	milk-feed ratio price	C.	Federal Order price				
	В.	cooperative bonus premium	D.	mailbox price				
		<u>.</u>	_					
55.	is an effective natural choice exercise recovery drink 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 a has been shown to increase the body's ability to make new muscle and may help improve body							
	composition.							
	A.	Chocolate milk	c.	Gatorade				
	А. В.	Greek yogurt	C. D.					
	D.	GIECK YUZUIL	υ.	Whey protein concentrate				

56.	A mixture of milk and cream containing not less than 10.5 percent milkfat, but less than 18 percent milkfat is defined as					
	A.	light whipping cream	C.	light cream		
	В.	half-and-half	D.	heavy cream		
57.	handlers of A. B. C.	milk within a specific marketing orde mandatory congressionally required elected		ram that defines the terms under which thase milk from dairy farmers.		
	D.	voluntary				
58.	Which vario	ety of cheese represents in the largest Swiss	whol	esale sales volume, annually, in the U.S.? Mozzarella		
	В.	Cheddar	D.	Process American		
59.	-	when President Ronald Reagan procla	aimed	l a National Ice Cream Month, it has beer		
	Α.	June	C.	August		
	В.	July	D.	September		
60.	product cat	-	/aries	rs for milk utilized in the manufactured by location. The highest price paid for ates. Northwest Northeast		

Milk Quality and Products Career Development Event **Milk Production**

2018

- 1. D
- C 2.
- 3. Α
- C 4.
- 5. В
- 6. Α
- 7. D
- 8. Α
- C 9.
- 10. D
- 11. В
- **12.** C
- **13.** В
- C 14.
- **15.** Α
- 16. C **17.**
- C
- 18. Α
- 19. Α
- 20. В
- C 21.
- 22. D
- 23. Α
- 24. В Α 25.
- 26.
- C 27. Α
- 28. В
- 29. В
- 30. Α

Milk Quality and Products Career Development Event Milk Marketing

2018

7	4	
-		
_	_	_

- **32.** B
- 33. B
- 34. C
- 35. B
- **36.** B
- 37. A
- 38. D
- 39. C
- 40. A
- 41. C
- 42. A
- 43. B
- 44. C
- 45. B
- 46. D
- 47. B
- 48. D
- 49. B
- 50. B
- **51.** D
- **52.** B
- 53. B
- 54. D
- 55. A
- 56. B
- 57. D
- 58. C
- 59. B
- 60. A



Select the one best answer for each question

A major reason for limiting the use of antibiotics with lactating dairy cows is that antibiotics A. are toxic to cows B. may be found in the milk for many hours after treatment C. are ineffective when they contact milk D. cost more than dairymen can afford
A baby dairy animal is called a calf, weighting approximately pounds at birth. A. 20 to 40 B. 80 to 100 C. 150 to 160 D. 200
The microbiological standard for unpasteurized Grade A milk is bacteria or less per milliliter of milk. A. 50,000 B. 75,000 C. 100,000 D. 750,000
A young female calf is called a heifer. An adult female that has a calf is called a cow. A heifer will give birth to a calf when she is approximately old. A. 9 months B. 12 months C. 24 months D. 36 months
To what temperature must a farm bulk tank, or cooling plate, have the capacity to chill milk within two hours of the end of a milking? $A. \geq \! 50^{\circ}F$ $B. \leq \! 45^{\circ}F$ $C. \approx \! 40^{\circ}C$ $D. \leq \! 42^{\circ}K$

6.	Adulteration of milk with water is unlawful and can be detected by testing for A. titratable acidity B. total milk solids C. a high freezing point D. somatic cells
7.	Dairy cows begin to produce milk after giving birth to a calf. This milk production continues for approximately a 10 month period. This 10 month period is called the cow's period. A. lactation B. gestation C. dry D. calving
8.	The principal protein in milk is A. whey protein B. casein C. crude protein D. lactoglobulin
9.	is an organization that meets biennially in odd-numbered years. The main purpose of the Conference is to deliberate proposals submitted by various individuals from state or local regulatory agencies, FDA, USDA, producers, processors, consumers, etc., who have an interest in ensuring that the dairy products we consume are safe. A. National Conference on Interstate Milk Shipments (NCIMS) B. Food and Drug Administration (FDA) C. AOAC D. United States Dairy Export Council (USDEC)
10.	Raw milk somatic cell count must be or less to meet Grade A government standards in the United States. A. 100,000 B. 250,000 C. 400,000 D. 750,000
11.	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

12.	the cow's digestive tract? A. rumen B. small intestine C. omasum D. reticulum
13.	The CMT test detects in raw milk. A. bacteria B. red blood cells C. somatic cells D. antibiotics
14.	The off-flavor in milk generally caused by exposure to sunlight or fluorescent light is A. rancid B. oxidized C. acid D. malty
15.	What were the top three milk producing states during 2018? A. South Dakota, Texas, and New York B. California, Wisconsin, and Idaho C. Wisconsin, New York, and New Mexico D. California, New York, and Texas
16.	Post dipping a cow's teats helps control A. contagious pathogens B. milk flow C. hair growth D. antibiotics
17.	Failure to sanitize milking equipment immediately before use may result in a A. foreign flavor B. high somatic cell count C. high bacteria count D. high freezing point
18.	By volume, milk consists of approximately percent water. A. 3.7 B. 50 C. 87 D. 92

19.	To remove fat from milking equipment use
	A. alkaline cleaner in hot water
	B. alkaline cleaner in cold water
	C. acid cleaner in cold water
	D. acid cleaner in hot water
20.	What hormone is naturally released by the cow to stimulate milk letdown?
	A. oxytocin
	B. progesterone
	C. estrogen
	D. adrenaline
21.	The U.S. dairy industry is increasingly complex, with dynamic trends in consumer preferences,
	farm production, product manufacturing and government regulations. The U.S. dairy industry is
	considered to be a a year industry.
	A. \$628 billion
	B. \$125 billion
	C. \$500 million
	D. \$100 million
22.	The ability of lipase to attack milk fat and produce a rancid off flavor is enhanced by
	A. feeding cows moldy hay
	B. excessive agitation of warm raw milk
	C. exposing milk to sunlight
	D. poorly cleaned milking equipment
23.	is the time after processing during which a dairy product normally remains suitable
	for human consumption.
	A. Packaged date
	B. Shelf life
	C. Product code
	D. Product life
24.	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
	D. The Codex Alimentarius of the World Health Organization

25.	The major cause of salty flavor in milk is A. the large intake of salt by the cow B. mastitis C. exposure to sunlight D. bacteria
26.	The two most important diseases of cattle transmissible to man through milk are A. scarlet fever and Q fever B. tuberculosis and anthrax C. brucellosis and scarlet fever D. tuberculosis and brucellosis
27.	Marketing cooperatives often offer incentives to dairy farmers for producing milk having which of the following special characteristics? A. low volume milk production per cow B. low protein content C. high somatic cell count D. low bacteria count
28.	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
29.	When feeding distillers grains in dairy feed rations, there are concerns regarding the supply of protein building blocks. What are the building blocks of protein? A. DNA B. carbohydrates C. nitrogen D. amino acids
30.	Milk is a major nutritional source of which mineral that combined with vitamin D and exercise builds strong bones and teeth? A. calcium B. iron C. phosphorous D. potassium



Select the one best answer for each question

MILK MARKETING

31.	What piece of US legislation made farmer cooperatives legal? A. Sherman Act B. Capper-Volstead Act C. Farm Bill D. Barkley Act
32.	With few exceptions U.S. commercial disappearance of dairy products in 2018 was better than 2017 levels. However, products that fell short of the 2017 levels were significant. Two of these products were A. cheese and butter B. yogurt and cheese C. butter and fluid milk D. nonfat dry milk and skim milk powder
33.	A Federal Milk Marketing Order is not authorized unless two-thirds of the affected the proposed marketing area approves its implementation. A. dairy cooperatives supplying milk to B. producers supplying milk to C. cheese processors manufacturing with milk from D. handlers processing milk in
34.	Under the Federal Milk Marketing Orders, Class I milk is the highest priced utilization. In 2018, the highest Class I price was in thefederal milk order. A. Upper Midwest B. Northeast C. Southeast D. California
35.	Milk has more protein than you may think. An 8-ounce glass of real milk has times more protein than plant-based beverages, like almond "milk". In addition, milk protein is a complete protein, while most plant protein sources are missing some of the amino acids your body needs. A. 2 B. 8 C. 20 D. 31

36.	A Federal milk order is a regulation, issued by, which places certain						
	requirements on the first buyers of milk from dairy farmers within a certain geographical area.						
	A. the Secretary of Agriculture						
	B. Congress						
	C. each state's Governor						
	D. state legislatures						
37.	Federal Milk Marketing Orders are a program that defines the terms under						
	which handlers of milk within a specific marketing order purchase milk from dairy farmers.						
	A. mandatory						
	B. congressionally required						
	C. elected						
	D. voluntary						
38.	cheese is the nation's biggest cheese category reflecting amazing						
	production growth. Every single month during 2018 this cheese topped 2017 monthly						
	production totals.						
	A. Cheddar						
	B. Swiss						
	C. Edam						
	D. Mozzarella						
39.	One gallon of milk weighs approximately pounds.						
	A. 5.5						
	B. 7.8						
	C. 8.6						
	D. 10.1						
40.	What is the name of the USDA program that pays dairy farmers that signed up if the margin of						
	the monthly measures for the price of milk and the cost of feed is less than \$9.50?						
	A. Margin Protection Program						
	B. Whole herd buy out						
	C. Dairy Margin Coverage						
	D. Dairy Support Price						

41.	is an effective natural choice exercise recovery drink 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 shown 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
42.	The trading fees paid by other countries to import dairy products into the United States are called A. Import fees B. Export expenses C. Margin prices D. Tariffs
43.	The Federal Milk Marketing Orders primary objective is to provide A. a framework to make buying and selling of milk a more orderly process B. ensure fairness in the marketing of the milk C. help handlers with their business affairs D. keep the government informed
44.	Children's bodies and minds develop quickly, so they need all the nutrition they can get. Yet, more than half of the elementary school-aged children do not get enough calcium. Milk is the answer. One 8-ounce glass of milk provides of the daily minimum allowance of calcium. A. 100 % B. 60 % C. 30 % D. 15 %
45.	What is the major milk production cost on most dairy farms? A. calf care B. labor C. milking supplies D. A.I. breeding supplies
46.	The current United States Secretary of Agriculture is A. Sonny Bono B. Sonny Perdue C. Tom Vilsack D. Ann M. Veneman

47.	A milk producer would receive the maximum price for milk delivered within a milk marketing order if all of it was used to make
	A. dry whole milk
	B. ice cream
	C. mozzarella cheese
	D. pasteurized milk
48.	Which of the following flavors of ice cream is the most popular, by sales volume?
	A. Chocolate
	B. Vanilla
	C. Strawberry
	D. Butter Pecan
49.	To make one pound of butter requires approximately pounds of whole milk.
	A. 8
	B. 12
	C. 22 D. 44
	D. 44
50.	According to the U.S. Dairy Export Councilreceived the most dairy products
	exported from the United States in 2018.
	A. Japan
	B. Mexico
	C. Canada
	D. China
51.	Over half of the top 50 U.S. dairy cooperatives belong to an organization that is dairy farmers'
	chief lobbying voice in the nation's capital. What is the name of the organization?
	A. International Dairy Federation
	B. Dairy Farmers of America Federation
	C. National Milk Producers Federation
	D. International Dairy Foods Association
52.	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

53.	Which state, which did not participate in the Federal Milk Marketing Order program, voted to implement a new Federal order starting in November of 2018? A. Montana B. Idaho C. California
54.	 D. Pennsylvania 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
55.	The annual production of milk for the United States during 2018 was 218 billion pounds, which was 2017. A. higher than B. lower than C. equal to D. unchanged from
56.	What is the name given to the system utilized by the Federal Milk Marketing Orders that sets producer prices based on the finished dairy product in which the milk was used? A. Market pricing B. Classified pricing C. Creative pricing D. Hedge pricing
57.	Which two countries in the world produce the largest volume of cow's milk? A. United States and New Zealand B. Germany and Russia C. United States and China D. United States and India
58.	Most dairy cows are milked two or three times per day. On average, a cow will produce gallons of milk each day. A. 1 to 2 B. 6 to 7 C. 15 to 16 D. 20 to 21

- 59. The actual milk check amount received by dairy farmers is called the ______.
 - A. milk-feed ratio price
 - B. cooperative bonus premium
 - C. Federal Order price
 - D. mailbox price
- 60. Milk marketing cooperatives
 - A. provide marketing power for dairy farmers
 - B. control Federal Milk Marketing Orders
 - C. are not permitted by the Federal Milk Marketing Orders
 - D. operate only outside the Federal Milk Marketing Orders system



Select the one best answer for each question

QUALITY MILK PRODUCTION KEY

Question	Answer	Standard	Standard	Standard
1.	В			
2.	В			
3.	С			
4.	С			
5.	В			
6.	С			
7.	Α			
8.	В			
9.	Α			
10.	D			
11.	С			
12.	В			
13.	С			
14.	В			
15.	В			
16.	Α			
17.	С			
18.	С			
19.	А			
20.	А			
21.	А			
22.	В			
23.	В			
24.	С			
-				

[Type here]

25.	В		
26.	D		
27.	D		
28.	В		
29.	D		
30.	А		



Select the one best answer for each question

MILK MARKETING KEY

Question	Answer	Standard	Standard	Standard
31.	В			
32.	D			
33.	В			
34.	С			
35.	В			
36.	Α			
37.	D			
38.	D			
39.	С			
40.	С			
41.	А			
42.	D			
43.	А			
44.	С			
45.	В			
46.	В			
47.	D			
48.	В			
49.	С			
50.	В			
51.	С			
52.	В			
53.	С			
54.	D			

[Type here]

55.	А		
56.	В		
57.	D		
58.	В		
59.	D		
60.	А		



Select the one best answer for each question Please DO NOT write on exam

QUALITY MILK PRODUCTION

1.	What is the maximum bacteria count per milliliter of milk allowed for pasteurized Grade "A" milk? A. 20,000 B. 50,000 C. 100,000 D. 400,000
2.	The general recommendation for Holstein calves weighing about 90 pounds is to feed quarts of colostrum within four hours of birth. A. 1 B. 4 C. 6 D. 8
3.	The microbiological standard for unpasteurized Grade A milk isbacteria or less per milliliter of milk. A. 20,000 B. 50,000 C. 100,000 D. 750,000
4.	Which state had the most dairy farms in 2020? A. California B. Wisconsin C. New York D. Minnesota
5.	Which of the following occurs during the HTST pasteurization process? A. The amount of protein is decreased B. Thermoduric spore-forming microorganisms are eliminated C. Pathogenic microorganisms are killed D. All the milk is heated to at least 170°F

6.	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
7.	How long after birth should fermented feed first be introduced into a calf's diet? A. 10 days B. 1 month C. 6 weeks D. 4 months
8.	What is the term used to describe amino acids that must come from the food humans eat because they cannot be made by the body? A. whey protein B. casein C. essential D. non-essential
9.	 Who appoints members of the Fluid Milk Processor Promotion Board? A. US Secretary of Agriculture B. Food and Drug Administration (FDA) C. Chair of the DMI Board D. Chair of National Milk Producers Federation
10	Raw milk somatic cell count must be or less to meet Grade A government standards in the United States and or less to meet export standards required by the European Union (EU). A. 20,000; 100,000 B. 250,000; 400,000 C. 400,000; 750,000 D. 750,000; 400,000
11	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 D. The Codex Alimentations of the World Health Organization

12. Cows produce a lot of saliva while chewing, which contains a compound that helps to reduce the acidity levels in the rumen. A. magnesium oxide
B. sodium bentonite
C. bicarbonate
D. calcium carbonate
13 is the hormone naturally released by the cow to stimulate milk letdown.
A. Oxytocin
B. Progesterone
C. Estrogen D. adrenaline
D. adicitatilie
14. The ability of lipase to attack milkfat and produce a rancid off flavor is enhanced by
A. feeding cows moldy hay
B. excessive agitation of warm raw milk
C. exposing milk to sunlight
D. poorly cleaned milking equipment
15. Bacteria silage inoculants should be frozen or refrigerated below what temperature when storing A. 10 °F
B. 30 °F
C. 40 °F
D. 50 °F
16. Which breed of dairy cattle typically has the highest percentage of A1 (versus A2) genes for the beta-casein protein?
A. Jersey
B. Normande
C. Guernsey
D. Holstein
17. At what temperature should the water be maintained at the beginning of the alkaline detergent wash cycle while cleaning milking equipment?
A. At least 100° F
B. 100° to 115° F
C. At least 120° F
D. 160° to 170° F

18	Adulteration of milk with water is unlawful and can be detected by testing for A. titratable acidity B. total milk solids C. a high freezing point D. somatic cells
19	. For removing biofilms from milk equipment, which of the following is expected to be most effective? A. Hot water B. Peracetic acid C. Detergent D. Sodium Chloride
20	The two most common tests used for determination of unpasteurized milk quality are 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
21.	. What product has grown in popularity as a bedding material because it is recycled from manufacturing and construction waste, making it an affordable product that has good moisture absorption, low bacteria growth, and soil benefits? A. Chloride B. Magnesium C. Lime D. Gypsum
22.	 Milk is a major nutritional source of which mineral that combined with vitamin D and exercise builds strong bones and teeth? A. calcium B. iron C. phosphorous D. potassium
23	A. Too much salt in the ration and impaired kidney function of the cow B. Excessive feeding of minerals and dry roughage C. Cows with mastitis and milk produced late in a cow's lactation period D. Salt based sanitizers or alkaline water for drinking

24. On an	annual basis, what percentage of the total U.S. dairy herd is culled each year? A. 10% B. 20% C. 30% D. 40%	
25. The n	A. the large intake of salt by the cow B. mastitis C. exposure to light D. bacteria	
	the first touch of the udder the milking unit should be attached within second	onds
-	ently caused by over milking, what is the name of the condition in cows when cells in t lining of the teat end begin to overgrow? A. Hyperkeratosis B. Carcinoma C. Teat Canker D. Hairy Warts	he
	when there are no clinical signs, a cow's milk production begins to decline when its ic 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	

29. The term used to describe a lag of at least 30 seconds between the milking unit attachment and
the incline phase of milk flow is
A. delayed milk ejection
B. milk let-down
C. milk flow dynamics
D. vacuum delay
30. The map that describes a species' DNA sequence that geneticists use to evaluate and share genomic information is called A. reference genome B. whole sequence genome C. single nucleotide polymorphism
D. recessive gene



Select the one best answer for each question Please DO NOT write on exam

MILK MARKETING

31. Many U.S. dairy manufacturing compan	ies belong to an	organization t	hat is the dairy	processors
chief lobbying voice in the nation's capital.	What is the nan	ne of the organ	nization?	

- A. International Dairy Federation
- B. Dairy Farmers of America

C. Milk Donation Program

D. Producer Food Bank Alliance

- C. National Milk Producers Federation

D.	International Dairy Foods Association
offers three the following	parison to the Margin Protection Program for dairy, the Dairy Margin Coverage program e new higher levels of margin coverage on a producer's first 5 million pounds. Which of ang is not one of those levels? \$8.50
B.	\$9.00
C.	\$9.50
D.	\$10.00
cheese yiel A. o B. i C. o	s has severe economic consequences. The high somatic cell count causes a decrease in ld and the bacteria causes a (an) in the lactose (milk sugar). denaturation increase decrease gram-negative infection
cooperative	18 farm bill established the that makes it easier for producers, es, and processors to offer milk to food banks. Dairy for Kids Program
В.	Food Bank Provision Program

35. A milk producer would receive the maximum price for milk delivered within a milk marketing order if all of it was used to make A. dry whole milk B. ice cream C. mozzarella cheese D. pasteurized milk		
36. Created by the Fluid Milk Promotion Act of 1990, this organization collects an assessment from processors marketing more than 3 million pounds of milk. This organization develops and finances generic advertising programs to expand markets and uses of US fluid milk products. What is the name of this organization? A. Dairy Marketing Inc.		
B. National Milk Producers Federation		
C. National Fluid Milk Processor Promotion Board		
D. International Dairy Federation		
37. What is the term used to describe the processing credits that are designed to reflect the average processing costs associated with producing cheese, butter, nonfat dry milk, or dry whey? A. Cost ratio		
B. Make allowance		
C. Competitive pay price		
D. Producer Price differential		
38. How many pounds of cheese do U.S. consumers eat annually per capita? A. 15 pounds		
B. 29 pounds		
C. 37 pounds		
D. 45 pounds		
39. One gallon of 40% cream weighs approximately pounds. A. 7.7 B. 8.3 C. 8.6 D. 9.2		

	most recently entered the Federal Milk Marketing Order system? Wisconsin
В.	California
C.	New York
D.	Florida
major food greecup servings of A. B. C.	ated 2020-2025 Dietary Guidelines for Americans, USDA upheld dairy's standing as a coup critical to maintaining healthy diets, recommending the equivalent ofone-of milk per day for adults ages 19 through 59. two three four five
when compare	re were significant disruptions in trade throughout 2020, US dairy exportsed to the dairy exports of 2019. grew by 9%
B.	decreased by 8%
C.	grew by 25%
D.	declined significantly by 20%
milk prices ba A. B. C.	e name given to the system utilized by the Federal Milk Marketing Orders that sets sed on the finished dairy product in which the milk was used? Free market pricing Classified pricing Hedge pricing Creative product pricing
protein than p	nore protein than you may think. An 8-ounce glass of real milk has times more lant-based beverages, like almond milk. In addition, milk protein is a complete protein ant protein sources are missing some of the essential amino acids your body needs.
B.	8
	15
D.	20

45. In ice cream, the term that refers to the volume of air relative to the initial volume of ice cream mix is?	1
A. Fluffiness	
B. Overrun	
C. Airiness	
D. Viscosity	
46. Dairy herds now average more than 1,000 head in states in 2020. A. four	
B. eight	
C. fifteen	
D. eighteen	
47. Although, some states produce more milk than their population can consume (net exporters of milk), other states do not produce enough milk to full fill their population needs (net importers of milk). Which of the following states is a net importer of milk? A. Florida B. South Dakota C. Oregon D. California	
48. Which variety of cheese represents the largest wholesale sales volume, annually, in the U.S.? A. Swiss	
B. Cheddar	
C. Mozzarella	
D. Processed American	
49. To make one pound of Cheddar cheese requires approximately pounds of whole mil A. 8 B. 10 C. 20 D. 44	k.
50. How many states had an increase in dairy operations from 2019 to 2020? A. 20	
B. 10	
C. 5	
D. 0	

51. A Fed affected_	leral Milk Marketing Order is not authorized unless two-thirds of the milk to the proposed marketing area approves its implementation.
	A. dairy cooperatives supplying
	B. producers supplying
	C. cheese processors manufacturing
	D. handlers processing
52. Which	h country purchased the most dairy products from the United States during 2020?
	A. Mexico B. New Zealand
	C. Canada
	D. China
53. Which	h two states produced the most milk in 2020? A. New York and Wisconsin
	B. Idaho and Texas
	C. California and Idaho
	D. California and Wisconsin
	leral milk marketing order classifies milk based on its use. The classes of milk have
	A. percentages of fat
	B. prices paid to producers
	C. somatic cell counts
	D. quality standards
55. The a was	nnual production of milk for the United States during 2020 was 223 billion pounds, which 2019 annual milk production.
	A. 2.2% higher than
	B. 2.0 lower than
	C. 3.1% higher than
	D. unchanged from
56. What	is the term for the actual amount received by a dairy producer for milk sold to a processor? A. Milk-feed ratio price B. Cooperative bonus premium C. Federal Order price D. Mailbox price

	Intry sold the most dairy products to the United States in 2020? Mexico	
B.	Russia	
C.	Canada	
D.	New Zealand	
58. The USDA more than	A-AMS standards for dry whey require that it be not more than, and not,	
A.	10% moisture and 0.5% milkfat	
В.	5% moisture and 1.5% milkfat	
C.	5% moisture and 5% milkfat	
D.	10% moisture and 1.5% milkfat	
A. B. C.	he largest dairy products processor that filed bankruptcy in 2020? DFA (Dairy Farms of America) Kroger Land'O Lakes Borden	
60. What item of federal legislation authorized the legality of farmer cooperatives and provided them with legal rights of negotiation for their members in matters related to the pricing structures and marketing of milk products?		
A.	Morrill Act	
B.	Sherman Act	
C.	Capper-Volstead Act	
D.	Farm Bill	



Select the one best answer for each question

QUALITY MILK PRODUCTION KEY

National FFA Organizat

Question	Answer	Standard	Standard	Standard
1.	Α			
2.	В			
3.	С			
4.	В			
5.	С			
6.	А			
7.	D			
8.	С			
9.	Α			
10.	D			
11.	С			
12.	С			
13.	Α			
14.	В			
15.	С			
16.	D			
17.	D			
18.	С			
19.	В			
20.	В			
21.	D			
22.	Α			
23.	С			
24.	С			

[Type here]

25.	С		
26.	С		
27.	А		
28.	В		
29.	А		
30.	А		



Aug-22

Select the one best answer for each question

MILK MARKETING KEY

Question	Answer	Standard	Standard	Standard
31.	D			
32.	D			
33.	С			
34.	С			
35.	D			
36.	С			
37.	В			
38.	С			
39.	В			
40.	В			
41.	В			
42.	A			
43.	В			
44.	В			
45.	В			
46.	С			
47.	A			
48.	С			
49.	В			
50.	D			
51.	В			
52.	A			
53.	D			
54.	В			

[Type here]

55.	A		
56.	D		
57.	С		
58.	В		
59.	D		
60.	С		



Select the one best answer for each question. Please DO NOT write on the exam.

QUALITY MILK PRODUCTION

1.	Milk contains how many essential nutrients?
	a. 11
	b. 13
	c. 7
	d. 9
2.	According to USDA-AMS Standards, Ice Cream must contain not less than
	a. 10 % Milk solids and 20% milkfat
	b. 30% Milk Solids and 20% milkfat
	c. 15% milk solids and 10% milkfat
	d. 20% milk solids and 10% milkfat
3.	The microbiological standard threshold for unpasteurized Grade A milk isbacteria or less per milliliter of milk.
	a. 20,000
	b. 50,000
	c. 100,000
	d. 750,000
4.	The activity/inactivity of the enzyme is the basis for confirming the adequacy of pasteurization of milk.
	a. Phosphatase
	b. Lipase
	c. Peroxidase
	d. Catalase

5.	What is the predominant method of pasteurization used for milk in the U.S.? a. Ultra-high temperature (UHT) b. Vat pasteurization c. Ultra-pasteurized (UP) d. High-temperature, short-time (HTST)	
6.	To meet the definition of 100% fat-free, food must contain contain no added fat. a. less than 0.05 g of fat per 100g	_ and
	b. zero g of fat per 100 g	
	c. less than 0.5 g of fat per 100g	
	d. less than 1.0 g of fat per 100g	
7.	How often should a bulk tank be cleaned and sanitized? a. Every time it is emptied b. Every two days c. Once a week	
	d. Once a month	
	A2 Milk is produced by cows that naturally produce only type? a. A2 protein b. A2 butterfat c. A2 lactose d. A2 carbohydrate	
9.	What is the most used feed ingredient on a farm?	
	a. Hay	
	b. Corn Silage	
	c. Water	

d. Mineral mix

10.		lw milk somatic cell count must be or less to meet Grade A government andards in the United States.
	a.	20,000
	b.	50,000
	C.	400,000
	d.	750,000
11.	Ту	pical farm milk consists of
	a.	87.3 % water, 4.00 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% lactose, 4.5% other solids
12.	ch	milar to human fingerprints, cow are detailed, nearly unique, difficult to ange, and remain the same over the life of an individual, making them ideal long-rm markers of identity.
	a.	hooves
	b.	eyes
	C.	tongues
	d.	noses
13.		is the main nutrient provided by soybean meal in a dairy feed ration.
	a.	Protein
	b.	Fat
	C.	Vitamin D
	d.	Carbohydrate
14.	Th	e high acid flavor in milk is caused by
	a.	feeding cows moldy hay
	b.	excessive agitation of warm raw milk
	C.	exposing milk to sunlight
	d.	bacterial growth

- 15. How long does it take for the cow to reach optimal oxytocin levels, after udder stimulation?
 - a. more than 4 minutes
 - b. 4 minutes
 - c. 1 to 2 minutes
 - d. 15 seconds
- 16. Compared to a Holstein cow, on a per gallon of milk basis, the average Jersey cow produces?
 - a. more fat and total milk solids
 - b. more fat but less total solids
 - c. less fat and total milk solids
 - d. less fat but more total milk
- 17. For removing biofilms from milk equipment, which of the following is expected to be most effective?
 - a. Hot water
 - b. Peracetic acid
 - c. Detergent
 - d. Sodium Chloride
- 18. What is the most common cause of high bacteria counts in milk?
 - a. Dirty milking equipment
 - b. Environmental contamination
 - c. Milkers not wearing gloves
 - d. Milking cows with high SCC
- 19. While cow numbers in the nation's dairy herd held steady in 2021, the dairy farm numbers did not follow the same course. Dairy farm numbers fell to under the threshold for the first time since America's pioneer days.
 - a. 10,000
 - b. 15,000
 - c. 25,000
 - d. 30,000

20.The specific gravity of milk is 1.032 at 60°F. Knowing the specific gravity of a milk sample and testing the freezing point of milk with a cryoscope is used to determine
a. microbacteria count of milk
b. adulteration of milk with water
c. titratable acidity of milk
d. somatic cell count
21. The California Mastitis Test (CMT) test detects in raw milk.
a. bacteria
b. red blood cells
c. somatic cells
d. Antibiotics
22. What is the protein in milk that entraps milk fat within the curd matrix during the manufacture of cheese?
a. casein
b. calcium
c. crude protein
d. whey protein
23. The off-flavor in milk generally caused by exposure to sunlight or fluorescent light i
a. Salty
b. Rancid
c. Oxidized
d. Malty
24.Which portion of milking procedure is recommended because it flushes potential mastitis-causing bacteria from the end of the teat canal, allows you to observe early signs of clinical mastitis and helps promote milk letdown?
a. predipping

b. forestripping

c. postdipping

d. drying

25.0	One gallon of milk weighs approximately p	ounds
a.	a. 8.6	
b.	o. 6.8	
C.	2. 10.1	
d.	d. 6.5	
	The key to boosting milk protein lies largely in getting which part of the cow's digestive tract.	the correct amino acids to
a.	a. Reticulum	
b.	o. Omasum	
C.	Abomasum	
d.	d. Rumen	
	n ice cream, the term that refers to the volume of air r	elative to the initial volume of
a.	a. Airiness	
b.	o. Viscosity	
C.	c. Fluffiness	
d.	d. Overrun	
	Even when there are no clinical signs, a cow's milk process somatic cell count is greater than how many cells/m	
a.	a. 100,000 cells/ml	
b.	o. 200,000 cells/ml	
C.	c. 400,000 cells/ml	
d.	d. 750,000 cells/ml	
	Certain types of bacteria form what kind of cell structuranitizers?	re that are resistant to heat and
a.	a. Mycotoxin	
b.	o. Nuceli	
C.	c. Ribosomes	
d.	d. Endospores	

30.In the pa	st 50 years, mi	Ik production	per c	ow in th	ne United	States	has in	ncreased	from
9,751 to	K	oounds.							

- a. 13,666
- b. 23,777
- c. 41,888
- d. 50,479



Select the one best answer for each question. Please DO NOT write on the exam

MILK MARKETING

- 31. Many U.S. dairy cooperatives belong to an organization that is the dairy farmers' chief lobbying voice in the nation's capital. What is the name of the organization?
 - a. International Dairy Federation
 - b. Dairy Farmers of America
 - c. National Milk Producers Federation
 - d. International Dairy Foods Association
- 32. Who is the U.S. Secretary of Agriculture?
 - a. Tom Vilsack
 - b. Sonny Perdue
 - c. Ann Veneman
 - d. John Block
- 33. A recent survey conducted by Hoard's Dairyman reported that 55% of dairy farms feed waste milk to _____.
 - a. A. first calf heifers
 - b. B. calves
 - c. C. 2-year-old cows
 - d. D. cats
- 34. Milk marketing cooperatives
 - a. provide marketing power for dairy farmers.
 - b. control Federal Orders.
 - c. operate only outside Federal Orders.
 - d. are not permitted by Federal Orders.

- 35. Classified pricing under Federal Milk Marketing is a system that assigns value to milk based on the end use of the product. Class II pricing includes milk used to make
 - a. A. dry whole milk
 - b. B. spoonable (soft) dairy products
 - c. C. mozzarella cheese
 - d. D. pasteurized milk
- 36. The reason Federal Milk Market Administrators test grade A milk for composition and audit records of purchases by dealers is to _______.
 - a. ensure an adequate supply of milk
 - b. ensure fairness in the marketing of the milk
 - c. help dealers with their business affairs
 - d. keep the government informed
- 37. What is the term that is an estimate of what it costs to transform milk into a finished dairy product like butter or cheese? These estimates are important because the values are used by USDA in setting the monthly minimum prices that regulated plants must pay for the components in your milk checks
 - a. Cost ratio
 - b. Make allowance
 - c. Competitive pay price
 - d. Producer Price differential
- 38. Created by the Fluid Milk Promotion Act of 1990, this organization collects an assessment from processors marketing more than 3 million pounds of milk and develops and finances generic advertising programs to expand markets and uses of US fluid milk products.
 - a. Dairy Marketing Inc.
 - b. National Milk Producers Federation
 - c. National Fluid Milk Processor Promotion Board
 - d. International Dairy Federation

39. The Dairy Margin Coverage (DMC) program offers protection to dairy producers when the difference between the all-milk-price and the average feed price (the margin) falls below a certain dollar amount selected by the producer. In 2021, the DMC program made indemnity payments totaling nearly to producers who chose to be covered.
a. \$990,000
b. \$1.2 million
c. \$1.2 billion
d. \$5.0 billion
40. Which was the top yogurt producing state in 2021?
a. Wisconsin
b. California
c. New York
d. Idaho
41. Which cooperative marketed the most milk in 2021?
a. Associated Milk Producers, Inc.
b. Dairy Farmers of America
c. Land O'Lakes
d. Southwest Dairy Farmers
42. While there were significant disruptions in trade throughout 2021, total US dairy export value when compared to the dairy exports of 2020.
a. grew by 18%
b. decreased by 18%
c. grew by 25%
d. declined significantly by 20%
 43. Federal Milk Market Orders provide to distribute moneys fairly among producers supplying milk to a market. a. a producer settlement fund b. a board of commissioners c. classified pricing d. creative product pricing

44. Most dairy cows are milked two to three times per day. On average, a Holstein dairy cow will produce gallons of milk each day.
a. 1 to 2
b. 8 to 9
c. 15 to 16
d. 20 to 21
45. Since 1984, when President Ronald Reagan proclaimed a National Ice Cream Month, it has been celebrated annually, every?
a. August
b. July
c. May
d. June
46 has the greatest number of dairy cows in the world with over 40
million cows.
a. India
b. China
c. United States
d. Canada
47. Although, some states produce more milk than their population can consume (net exporters of milk), other states do not produce enough milk to fulfill their population needs (net importers of milk). Which of the following states is a neighbor importer of milk?
a. Idaho
b. South Dakota
c. Oregon
d. Georgia
48. Traditionally, Mozzarella cheese is made from the milk of water buffalo. When compared to mozzarella from dairy cattle milk, mozzarella from water buffalo milk is lower in:
a. Calcium
b. Protein
c. Cholesterol
d. Iron

49.	To make one pound of butter requires approximately milk.	_ pounds of whole
	a. 8	
	b. 10	
	c. 21	
	d. 44	
50.	Which state recorded the largest percentage gain of milk proincrease of 16.7% during 2021?	duction with an
	a. California	
	b. Wisconsin	
	c. South Dakota	
	d. Wyoming	
51.	The combining total classified value of producer milk received regulated under a milk order is defined as	d by every handler
	a. minimum pricing	
	b. producers' production pricing	
	c. classified pricing	
	d. marketwide pooling	
52.	Which country purchased the most dairy products from the Uduring 2021?	Jnited States
	a. Mexico	
	b. New Zealand	
	c. Canada	
	d. China	
53.	California, Wisconsin and Idaho were the three largest milk p 2021. Their production accounted forpercent of the production in 2021.	
	a. 20	
	b. 40	
	c. 60	
	d. 80	

- 54. ______ is an effective natural choice exercise recovery drink 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 shown 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
- 55. Which countries lead the world in milk production and cattle milk production, respectively?
 - a. India and United States
 - b. China and New Zealand
 - c. China and United States
 - d. India and New Zealand
- 56. Which of the following is true of Kefir??
 - a. A. It is a fermented milk drink
 - b. B. It is made from the milk of cattle, goats, or sheep
 - c. C. It is fermented with a culture of bacteria and yeasts
 - d. D. All of the above
- 57. Milk from this species is the most widely consumed milk in the world?
 - a. Cattle
 - b. Goat
 - c. Sheep
 - d. Water buffalo

58.	The Dairy Research and Promotion Program, also known as the Dairy Checkoff
	Program, is a national producer and importer program for dairy product
	promotion, research, and nutrition education. To fund the program, U.S. dairy
	farmers pay a 15-cents- per hundred-weight assessment on their milk and
	importers pay per hundred-weight on dairy products imported into
	the U.S.

- a. 30-cents
- b. 22-cents
- c. 7.5 cents
- d. 5-cents
- 59. The actual milk check amount received by a dairy farmer is called the
 - a. fair market price
 - b. cooperative uniform price
 - c. mailbox price
 - d. Federal Order uniform price
- 60. What item of federal legislation authorized the legality of farmer cooperatives and provided them with legal rights of negotiation for their members in matters related to the pricing structures and marketing of milk products?
 - a. Morrill Act
 - b. Sherman Act
 - c. Capper-Volstead Act
 - d. Farm Bill



2022 - QUALITY MILK PRODUCTION KEY

Question	Answer	Standard	Standard	Standard
1.	В			
2.	D			
3.	С			
4.	Α			
5.	D			
6.	С			
7.	Α			
8.	Α			
9.	С			
10.	D			
11.	Α			
12.	D			
13.	Α			
14.	D			
15.	С			
16.	Α			
17.	В			
18.	А			
19.	D			
20.	В			
21.	С			
22.	А			
23.	С			
24.	В			
25.	А			
26.	С			
27.	D			
28.	В			
29.	D			
30.	В			



2022-MILK MARKETING KEY

Question	Answer	Standard	Standard	Standard
31.	С			
32.	A			
33.	В			
34.	A			
35.	В			
36.	A			
37.	В			
38.	С			
39.	С			
40.	С			
41.	В			
42.	A			
43.	A			
44.	В			
45.	В			
46.	A			
47.	D			
48.	С			
49.	С			
50.	D			
51.	D			
52.	D			
53.	В			
54.	A			
55.	A			
56.	D			
57.	В			
58.	С			
59.	С			
60.	С			