CALIFORNIA FFA DAIRY JUDGING QUESTIONS #1-200 2024

(Sources 2022 & 2023 Hoard's End of the Year Quiz/2022 and 2023 National FFA Dairy Judging Questions)

1. W	hich nutrient in A) Calcium		high energy da C) Potassiun		Vitamin B12	
2. W	hat is the optimu A) 1 to 3 mg/	_	ilk urea nitroge o 12 mg/dL		-18 mg/dL	D) 23-28 mg/dL
3. W	hich of the follo A) Fungi B) Mycotoxii C) Bacteria D) All of the	ns	uminate feed an	d drain	cows' energy'	?
	dition to being a	building block biological funkfat as a buffer	for protein?	acid. T	nis means that	it serves what purpose
5. W	ater delivered to A) 40°F	calves should B) 50°F	be less than 80 C) 60°F	°F but a D) 70		mperature?
6. Ho	ow often should A) Never	feed bunks for B) Daily	the milking her C) Once a we		eaned out to re D) Every otl	
7. W	hich of the follo A) Stabilize r B) Support r C) Improve fi D) Convert la	umen pH nicroorganism ber digestion	benefit yeast c	•	ide to the dair	y ration?
8. W	hat is the term for A) Deficient		ls eat inanimate C) Bored	•		od?
9. Dı	uring storage, wl A) Rises	nat happens to a B) Falls	a corn silage's (C) Stays the s	-	ing score? D) Rises the	n falls
10. V	When properly st A) 3 months		oculants often h			east how long?
11. V	When pre-dippin A) 3/4	g, how much of B) 1/2	f the teat barrel C) 1/3		be coated?	

12. Adrenaline limits milk letdown and is produced due to animal stress. How long can the						
inhibitory effects of adrenaline last? A) 60 seconds B) 10-15 minutes C) 20 to 30 minutes D) An hour						
13. Tube feeders deposit milk into which stomach compartment?A) Rumen B) Reticulum C) Omasum D) Abomasum						
14. What structure controls a cow's response to daylight and day length?A) Cornea B) Retina C) Pineal gland D) Melatonin						
15. How many times should a needle be used to administer treatments before it is disposed of? A) Once B) Twice C) 3 times D) As many as it can						
16. What measure is the best gauge of an animal's core body temperature? A) Respiration Rate B) Skin Temperature C) Monitor temperature humidity index (THI) D) Rectal temperature						
 17. What substance is administered orally and often used to treat ketosis? A) Propylene glycol B) Calcium C) Meloxicam D) All of the above 						
 18. If a farm is using "blanket dry cow therapy," all cows are receiving what at dry- off? A) Scours vaccine B) Antibiotics C) Fungicide D) A haircut 						
19. What term refers to the period of time after tactile stimulation is completed and before the milking unit is attached? A) Preparation lag time B) Let down time C) Latency period D) Drag period						
20. Meloxicam is an example of what type of animal treatment? A) Non-steroidal anti-inflammatory drug B) Antibiotic C) Coccidiostat D) Anesthesia						

21. Ad	21. Adenosine triphosphate (ATP) swab tests may be used to check what? A) Cleaning protocols B) Milk quality C) Starch digestibility D) Colostrum quality						
22. W	-	he country has B) Southeast	_	erage herd size? D) West			
23. In level?	a compost-bed	ded pack barn,	a farm should a	aim to keep the pack moisture below what			
10 (01.	A) 20%	B) 40%	C) 60%	D) 80%			
24. Ex	tended lock-up A) 2	time in headlo B) 4	cks can be defi C) 5	ined as more than how many hours per day? D) 7			
25. W	hat is a dairy co A) 3-6 hours			nours D) 15 or more hours			
26. Ev	26. Every tractor should have a ROPS installed as a safety measure. What does ROPS stand for? A) Rollover protection structure B) Retractable, operating program for safety C) Runaway and over protection system D) Removable overhead protection structure						
	27. When choosing teat liners, it is important to consider the most common teat end shape in your herd. Which of the following is NOT a way that a teat end shape might be classified? A) Flat B) Pointed C) Round D) Sharp						
28. WI	hich of the follo A) Sidebar	owing is NOT a B) Fine tip	• •	ake? D) Rotary			
29. W	29. What is the highest grade of butter sold in the United States? A) US Grade 1 B) US Grade A C) US Grade AA D) US Grade A+						
30. W	30. Which of the following is NOT a tool used to assist a down cow? A) Hip sling B) Flotation tank C) Elevation table D) Rolling the cow from side to side every few hours						
31. Hi	gh-moisture sh A) 15%	elled corn shou B) 19%	ld have a moist C) 24%	sture content above what level? D) 28%			

32. Compared to alfalfa and clovers, grass usually has how much internal ash, such as calcium and potassium?						
*	B) The same	C) Slightly m	nore D) M	uch more		
	owing was not on B) California		P five corn sila D) Illinois	ge-producing states in 2022?		
34. Composting man how much?	ure can reduce	the amount of	material that no	eeds to be land applied by up to		
A) 10%	B) 20%	C) 30%	D) 40%			
graze a pasture and n	nove to a new o	ne?	-	uld be left after dairy animals		
,	B) 33%	,	D) 75%			
B) Growing C) Ground de	nd development degree days	during drough				
37. What is the fertilizer form of potassium called? A) Potassium B) Phosphate C) Potash D) Bicarbonate						
38.Late season yellowing of the lower leaves in corn plants is often a normal sign of what type of deficiency? A) Nitrogen B) Phosphorus C) Potassium D) Sulfur						
39. Which of the following is not an acceptable dry matter content for corn to be chopped for						
silage?	_			t for com to be enopped for		
,	B) 33%	,	,			
 40. What manure gas destroys the sense of smell when it reaches dangerously high concentrations? A) Ammonia B) Hydrogen sulfide C) Carbon dioxide D) Methane 						
41. In what year did A) 1998	sales of dairy se B) 2007	emen peak in th C) 2012	ne U.S. at 24 m D) 2015	nillion doses?		
<u> </u>		ination to mod	ify the sperm p	plasma membrane and is		
necessary for fertilization? A) Spermatogenesis B) Capacitation C) Deposition D) Dilution						

43. In December 2023, the national cooperator database managed by the Council on Dairy Cattle Breeding reached how many recorded genotypes?						
Breedi	A) 3 million		~	million	D) 1 billion	
44. Se	xed semen shou A) 89°F	ald be thawed a B) 95°F to 98°			t 45 seconds? 2°F to 105°F	
45. Th	e interval from A) 12 hours		anding estrus to C) 28 hours	-	pproximately how long?	
46. W		lsteins causes a B) COOL3		and, subseque D) HEAT2	ntly, lower body temperatures	?
47. Mo	ost pregnancy lo A) Day 7		ore what day o C) Day 35	f gestation? D) Day 42		
		rtility, as meası	ared by sire con	nception rate, ty	ypically follows what trend as	
the bu	ll gets older? A) Improves	B) Declines	C) Stagnates	D) Declines fo	or a few years then stagnates	
49. Th	e Jersey breed o	originated on the B) Ireland	ne Isle of Jersey C) Netherland		f the coast of what nation?	
	was recently and virus was born in A) Johne's B) Turerculos: C) Bovine vir D) Mad cow	in 2021?	e first calf gen	e-edited to be r	esistant to what destructive	
51. W	hat state is hom A) New York	e to the most on B) Wisconsin	•			
52. Ro	oughly what sha A) 12%	re of the U.S. n B) 18%	nilk supply wa C) 24%	s exported in 20 D) 28%	022?	
		milk production	n to population	, what state pro	oduces the most milk per	
person	A) California	B) Idaho	C) Pennsylvan	nia D) New	Mexico	
		U.S. dairy cow	s set a new rec	ord for average	e butterfat content last year at	
what le	evel? A) 3.79%	B) 3.96%	C) 4.08%	D) 4.19%		

55.		leduction Act of 2020 n Bill	• ` /	program first create	d?
56.	What share of U.S A) 8%	S. cheese was p B) 16%		sconsin in 2022? D) 33%	
57.	Which Canadian : A) Quebec	province is hon B) Manitoba		dairy farms? D) Ontario	
58.	C) California	ikes <mark>mers of Amer</mark> i	ica	s in 2022?	
59.	What was the mo A) American	st-produced che B) Cheddar		. in 2022? D) Mozzarella	
60.	What share of the A) 97%	world's milk o B) 92%	comes from cov C) 86%	vs? D) 81%	
61.	Preliminary incub A) Cold-toler B) Heat-tolers C) Coliforms D) Gut bacter	rant ant	nt identifies wh	at type of bacteria in	n milk?
62.	•	•		er are referred to as ed D) De novo	what?
	When a cow has a	a left displaced	abomasum (Ll	DA), the abomasum	has slid under what other
	A) Heart	B) Omasum	C) Rumen	D) Lungs	
64.	What hormone m A) Growth ho B) Parathyro C) Cortisol D) Oxytocin	rmone	n from the bon	e?	
65.		cost of a case of B) Discarded		itis is related to wha lk culturing D)	ıt? Additional labor

	What carcass qual	ity concern is m	nore prevalen	t in dair	y-beef animals than conventional beef
	A) Toughness	B) Poor marbli	ng C) Fa	ttiness	D) Liver abscesses
67.	What color is nitri A) Colorless		C) Black	D) Lig	ght gray
68.	Which of the follo A) Klebsiella B) Prototheca C) E. coli D) Staph. Au		n environmen	tal mast	itis pathogen?
	The highest incide partum?	nce of subclinio	cal ketosis oft	en occu	rs within the first how many days
posi	1	B) 30	C) 21	D) 7	
71.	C) To discover D) To monitor The leading envirous by which two r A) Nitrogen (N	oneumonia ardware disease cause of death growth onmental issues	s facing farment	ers are c	ontamination of ground and surface
	, -	N) and Chlorine N) and Phosph			
72.		n a feed analysi B) Dry Matter	-	ed as a p D) Pro	oredictor of feed intake?
73.	A) Body sizeB) Water quali	ty ntal temperature		mount o	of water dairy cattle consume?
74.	Which solutions a A) Chlorine B) Hydrogen p C) Chlorhexid D) All of the a	peroxide ine	sed as teat di	ps on da	iry farms?

75. According to the PDCA Cow Unified Scorecard, which of the following is NOT a category on the scorecard?
A) Body Capacity 10 points
B) Udder 40 points
C) Frame 15 points
D) Dairy Strength 25 points
76. One of the recently fresh cows is ill. She has been receiving a high grain, low roughage diet The consistency of the small amount of manure she produces is "putty-like." Your veterinarian detects a "pinging" sound when using his stethoscope. What is the most likely diagnosis? A) Left Displaced Abomasum B) Milk Fever C) Grass Tetany D) Ketosis
 77. Dr. Gustaf de Laval was credited with inventing what important piece of equipment? A) Tractor B) Centrifugal cream separator C) Calf hutch D) Semen tank
78. Which of the following is a part of the teat that milk passes through? A) Streat canal B) Inflation C) Cervix D) Pituitary
79. An example of a Class IV use for milk would be to make: A) Hard cheese B) Ice cream C) Chocolate Milk D) Butter
80. One effective method to prevent milk fever in dry cow rations is to supplement with anionic salts. What type of electrical charge does an anion have? A) Positive B) Neutral C) Negative D) They do not have a charge at all
81. What is one challenge to successfully applying anionic salts to dry cow diets? A) Poor palatability B) Add too much energy to the diet C) Results in the cow calving early D) Decreases milk production
82. The ruminant stomach is comprised of 80% of this first compartment: A) Reticulum B) Omasum C) Rumen D) Abomasum
83. Which dairy breed produces milk with the highest fat and protein content? A) Ayrshire B) Brown Swiss C) Jersey D) Holstein

84. What is the name of the organization that resulted from the collaboration among industry partners, breed associations, AI companies, DHIA testing organizations and the dairy records processing centers? A) World Dairy Expo B) Animal Improvement Programs Laboratory C) Dairy Business Association D) Council on Dairy Cattle Breeding					
85. The local veterinarian has invited you to do a herd visit with him to determine why calves are experiencing illness. You are asked to observe the calves housed outside in individual calf hutches. Calves appear to be lethargic and dehydrated. You notice calves have watery stools that are brown, grey, or yellow in color. Calves are weak and depressed. Upon reviewing birth information, the most seriously affected calves average 2-4 days of age. The bedding appears wet and dirty in both the calf hutches and the maternity pen. The most likely cause for this condition is which of the following: A) Too much milk being fed B) E. coli bacteria causing scours C) Antibiotic residues D) Too much protein in the milk replacer					
86. The dehydrated calves in question #85 should be supplemented with which of the following: A) Fat B) Protein C) Hay D) Electrolytes					
 87. One way to help prevent the incidence of the sick calves in question #85 is to: A) Group calves together B) Provide clean, dry, well bedded calving pens and calf hutches C) Let the calf nurse on the cow immediately after calving D) Feed more milk 					
88. Which of the following is NOT considered a micromineral? A) Phosphorus B) Cobalt C) Zinc D) Iodine					
89. The record of an animal's ancestry that provides genetic and performance information on an animal and its ancestors is commonly referred to as a? A) Family tree B) Registration paper C) Breeding chart D) Pedigree					
90. What hormone can interfere with milk letdown when a cow becomes frightened or upset? A) Prolactin B) Progesterone C) Adrenaline (epinephrine) D) Oxytocin					
91. In 2023, FFA Dairy will maintain an average SCC of 125,000 cells/ml in all 1 st lactation cows. In the SMART goal, 125,000 cells/ml SCC, represents which part of the acronym? A) Specific B) Measurable C) Attainable D) Realistic					

A) Pregnancy B) Sex of embryo C) Monitor cystic ovaries D) All of the answers

92. You call your local veterinarian to evaluate the reproductive status of your dairy cows. He

uses an ultrasound machine to help determine what?

93. If the MUN level is considered high, which nutrient is likely to be in excess? A) Fats B) Carbohydrates C) Vitamins D) Protein
94. Recently, your cows have been experiencing less production, lower butterfat, and sick cows that never seem to recover. What could be the cause of these symptoms? A) Ketosis B) Milk Fever C) Johne's D) Rumen Acidosis
95. This vitamin is derived from carotenoids found in plants and serves a wide range of functions for the animal. A) Vitamin E B) Vitamin D C) Vitamin C D) Vitamin A
96. Corn silage harvest was recently completed. Your nutritionist arrives to take a forage sample for analysis to determine a new ration formulation. You received the test report back. One number in particular that you are interested in knowing is the ADF value. What does ADF stand for? A) Area Dairy Forage B) Active Digestible Fiber C) Acid Detergent Fiber D) Available Digestible Forage
97. What does ADF measure in feed? A) Protein B) Dry matter C) How much cellulose, hemicellulose, and lignin are in the feed D) How much cellulose, lignin, and lignified nitrogen components are in the feed
98. Ideally, how much ADF should make up a high-producing cow's ration? A) 18-21% B) 10% C) 30-40% D) >50%
99. What is the target for body condition score (BCS) at calving and dry-off? A) 2.75 B) 3.0-3.25 C) 4.0-4.25 D) 2.5 E) 5.0
100. What is the most likely limiting nutritional requirement for a high-producing dairy cow? A) Water B) Vitamins C) Minerals D) Energy
 101. Volatile fatty acids are the main products of carbohydrate digestion by rumen microorganisms. Which of the following are volatile fatty acids produced in the rumen? A) Acetate and Propionic acid B) Butyric and Hydrochloric Acid C) Propionate and Lysine D) Methionine and Acetate
102. FFA Dairy recently began making cheese on the farm. In order to get the milk to curdle, what coagulant made from an enzyme found in the inner lining of a calf's stomach is added to the milk?
A) Coccidiosis B) Rennet (Rennin) C) IBR D) Lactose

103. In early summer, you select the heifers you want to show. As you examine the animals, you
notice signs on the face, neck and ears of what you believe to be a contagious disease caused by
a fungus leading to an infection outside of the immune system of the heifers. This disease that
invades the hair follicles and the outer layer of skin is commonly known as:

- A) Shipping Fever
- **B) Ringworm** C) Black Leg
- D) Rabies

104. The age of cattle most susceptible to the disease in Question #103 are?

- A) 1st lactation cows
- B) Mature bulls
- C) Mature Cows
- D) Young animals (calves and heifers)

105. Raw milk produced on the farm has which of the following milk quality tests performed at the milk plant?

- A) Sediment test
- B) Antibiotic test
- C) Preliminary incubation (PI) count
- D) All of the above

106. The purpose of this program is to show customers that the dairy industry is taking the very best care of cows and the environment, producing safe and wholesome milk, and adhering to the highest standards of workforce development. The name of the program is:

- A) National Dairy FARM Program
- B) Farm Bill Program
- C) Dairy Margin Coverage Program
- D) Precision Dairy Farming

107. Through what process is carbon dioxide taken from the atmosphere and fixed as carbohydrates in plant material?

- A) Respiration
- B) Transpiration
- C) Photosynthesis
- D) Photoperiod

108. Factors effecting a dairy herd's conception rate include which of the following?

- A) All of the following
- B) Heat detection accuracy
- C) Semen (bull) fertility
- D) Herd (cow) fertility

109. Budgets, balance sheets and cash flow projections are valuable and essential management tools, but they do not tell the manager if the business is profitable. What is the only tool of farm business analysis that measures profitability?

- A) Bank Statement
- B) Equity Statement C) Income Statement D) Schedule F

110. During a recent visit with your A.I. salesman, you are discussing the new bull proofs with her and want her help in selecting the best bulls to use on your heifers to improve PL. What do the acronym PL stand for? A) Production Lifetime B) Productive Life C) Predicted Lifetime D) Predicted Longevity	
111. Carbohydrates often make up what percentage of a cow's energy needs? A) 100% B) 20 to 30% C) 50-60% D) 70-80%	
112. If a cow is "slug feeding," what is she doing? A) Eating a large meal all at once B) Eating many small meals C) Eating very slowly D) Only eating at night	
 113. Amino acids are the building blocks for protein, but what compound is a building block for amino acids? A) Ammonia nitrogen B) Ammonium hydroxide C) Monosaccharides D) Polysaccharides 	or
114. What is the limiting factor for ruminants to digest fiber? A) Cellulose B) Energy C) Lignin D) Protein	
 115. The longest particles of a ration will be restrained on the top sieve of a Penn State Particl Separator. That sieve has openings that are how big? A) 12 millimeters B) 16 millimeters C) 19 millimeters D) 7 millimeters 	e
116. Baleage should be dried to what % dry matter? A) 27-33% B) 40-55% C) 60-65% D) 68-72%	
 117. What 2 crops are referred to as the "king and queen" of forages? A) Corn silage and alfalfa B) Corn silage and oats C) Haylage and clover D) Triticale and oats 	
118. What is the target pH for corn silage? A) 4 B) 5 C) 6 D) 7	

119.	What by-product A) Almond hu B) Beet pulp C) Corn disti D) Soybean m	ılls llers grains	cows eat at the	e highest rate:	
120.	What is a recom A) 0%	nmended goal f B) 1-3%	For feed refusals C) 5-6%	s for high-producing c D) 10%	ows?
121.		ving trouble re rops below who B) 65°F	at level?	temperature when the D) 78°F	environmental
122.		fore future lact		arous cow (having cal negatively affected? D) 90 days	ved more than once)
123.	the drug to cle	ear the animal's		on can have what effe D) Shortens	ct on the time it takes
124.	milking?	ay be inhibited B) 15 minutes	-	ence rough handling unites D) 5 minutes	-
125.	Which of the fo A) Chlorhexic			dip? C) Formaldehyde	D) Peroxide
126.	Heat-stressed cominute? A) 30	ows will have e	elevated respira	tion rates of at least he	ow many breaths per
127.	B) Encourage	abnormal milkes the flow of a he highest som	ζ.		
128.	•	few days of lif week 3 weeks	•	ould the calves be put	together?
129.	Debris buildup (A) 10%	can reduce fan B) 20%	efficiency by u	p to what percent? D) 40%	

130.	What is the primary way to control body condition score (BCS) at first insemination. A) Delay first insemination until cows reach appropriate condition B) Feed more energy early in lactation C) Limit feed early lactation cows D) Manage BCS during late lactation and the dry period
131.	While older cows typically peak at 40-60 days in milk (DIM), when do first-lactation cows usually peak? A) 105 to 115 DIM B) 40-60 DIM C) 50-70 DIM D) 80 to 100 DIM
132.	 A rule of thumb is to avoid over-crowding if 30% or more of a milking pen is what type of animal? A) 1st lactation cows B) Older cows (3rd lactation and greater) C) Open cows D) Pregnant cows
133.	HVLS fans are often the choice for compost-bedded pack barns. What does HVLS stand for? A) High velocity, low speed B) High velocity, low stimulation C) High ventilation, lasting stimulation D) High volume, low speed
134.	In an anerobic digester system, what does RNG stand for? A) Randomized natural gases B) Reduced noxious gases C) Regenerated normal gains D) Renewable Natural Gas
135.	Cows display longer heats on what kind of footing? A) Dry lots B) Grooved concrete C) Rubber D) Slatted concrete
136.	Natural ventilation works best in a facility with multiple barns if the barns are at least how far apart? A) 100 feet B) 300 feet C) 500 feet D) 700 feet
137.	What part of the barn should be the top priority when ensuring proper ventilation? A) Feed bunk B) Holding area C) Return alleys D) Stalls

138.	Footbaths should be 10-12 feet long, 2 feet wide, and how deep? A) 10 inches B) 12 inches C) 4 inches D) 8 inches
139.	Orient calf housing in which direction to maximize airflow? A) East to west B) It doesn't matter C) North to south D) Southeast to Northwest
140.	Milk harvesting and milk cooling may account for what % of the total farm energy use? A) 18% B) 25% C) 44% D) 56%
141.	What is the most common micronutrient deficiency in field corn? A) Cobalt B) Iron C) Manganese D) Zinc
142.	What nutrient has the chemical symbol "P"? A) Copper B) Phosphorus C) Potassium D) Sulfur
143.	Lignin serves what purpose in the plant? A) Carry our photosynthesis B) Carry out respiration C) Move water D) Provides strength and rigidity
144.	What is the ideal soil pH for most forage crops? A) 11 to 13 B) 3 to 4 C) 6 to 7 D) 9-10
145.	One ton of corn silage may contain how many bushels of corn grain? A) 12 to 15 B) 17 to 19 C) 2 to 3 D) 7 to 8
146.	If you are inter-seeding alfalfa with corn, the alfalfa should be seeded before the corn reaches what stage? A) R1 B) V1 C) V2 D) V4

147.	Alfalfa must dry down to at least what % moisture for hay baling? A) 14 to 18% B) 2 to 3% C) 22 to 25% D) 7 to 10%
148.	Which of the following is NOT an action that many crops may take when they experience heat stress? A) Reduce vegetative growth B) Accelerate flowering C) Reduce root growth D) Accelerate transpiration
149.	Modern benchmarks for corn kernel processing scores generally include a top performance around what score? A) 45% B) 60% C) 75% D) 95%
150.	Agricultural lime serves what main purpose as a fertilizer? A) Elevate soil pH B) Provide nitrogen C) Provide phosphorus D) Provide potassium
151.	Which of the following animals can be aspirated for oocytes using invitro fertilization? A) Prepubertal heifers B) Virgin heifers C) Pregnant animals D) All of the above
152.	Which bovine chromosome is larger and contains approximately 4% more DNA? A) They are the same B) Unknown C) X chromosome D) Y chromosome
153.	Administering what reproductive hormone promotes regressing of the Corpus Luteum (CL)? A) Follicle Stimulating Hormone (FSH) B) Gonadotropin releasing hormone (GnRH) C) Luteinizing hormone (LH) D) Prostaglandin (PGF)

 154. What is the term that refers to an animal having many related ancestors that were born decades ago? A) Ancient inbreeding B) Inbreeding depression C) Linebreeding D) Recent inbreeding
155. How many units of beef semen were sold in the U.S. in 2022? A) 2.5 million B) 4.3 million C) 6.1 million D) 8.7 million
156. In breeding, what does gEFI refer to? A) General estimated fertility index B) Generational estimated freemartin interval C) Genomic expected futurity index D) Genomic future inbreeding
157. The average occurrence of cystic ovaries within a herd is estimated to be what? A) 10% B) 2% C) 20% D) 25%
158. Liquid nitrogen in semen tanks is kept at what temperature? A) -100°F B) -180°F C) -200 °F D) -320°F
159. A cow in anestrus may experience what? A) No expressed heats B) Irregular heats C) Abnormal reproductive cycles D) All of the above
 160. What is the ideal location for semen deposition in A.I. (artificial insemination)? A) Cervix B) Oviduct C) Uterine body D) Uterine horn
161. What are the 2 most common minerals used in footbaths on dairy farms that are actively involved in the formation of hard keratin hooves?A) Copper and Zinc B) Copper & Biotin C) Zin and Iodine D) Zinc and Calcium

162.	,	milk production reproductive potalf mortality	on	re:			
	me of parturition	n (calving)?				nes of the udder an	round
	A) Embryonio	c B) Ly	mphatic	C) Hype	rtonic	D) Saline	
164.	What % of the 6 A) 20%	cows in the U.S B) 30%	S. are on farms C) 40%	s with meth D) 50%	ane digeste	rs?	
165. in mi		ck was respons	sible for develo	oping the B	abcock Tes	t in 1890 to detec	t what
	A) SCC	B) Protein	C) White blo	ood cells	D) Milk f	at content	
	A) Climate C B) Climate C C) Climate C	•	ite-smart pract on tee poration	_	•	nd Forestry Partne That does CCC sta	-
167.	What is the fact A) Calving ea			t of water c) Water te		•	
	empty. How oft A) Every day	e it is emptied	bulk tank be cl		-	rm and the bulk ta?	ank is
	The United State of every 5 years. A) 2022	-	_		_	re started in 1840	and is
170.	A) Heat detectB) NutritionC) Cow health	etion			-	ates on a dairy far	m?

171. One of the common steps of preparing a cow to milk is fore-stripping because it helps to release oxytocin and aids in the detection of what type of mastitis? A) All forms of mastitis B) Clinical C) Sub-clinical D) Mycoplasma							
172. It is your job on the farm to mix the milk replacer to feed the calves. Temperature is a critical component of mixing it properly. How should you check to make sure it has been mixed at the proper temperature? A) Feel B) Brix-Refractometer C) Colostrometer D) Thermometer							
173. The National Animal Health Monitoring System surveyed dairy farmers to determine what the most common criteria used for weaning a calf was. The results found which of the following criteria to be most common? A) Weight B) Height C) Age D) Outside Temperature							
174. The temperature outside in which a cow can maintain her own core body temperature without having to exert any extra effort to regulate either her heat loss or heat gain is called what? A) Photoperiod B) Respiration C) Estrus Zone D) Thermoneutral zone							
175. When reading bull proofs to select the best bull to use on your dairy heifers, PTA is listed on the proof. What does the acronym PTA stand for? A) Probable True Ability B) Productive Transmitting Ability C) Production True Ability D) Predicted Transmitting Ability							
 176. A DHIA milk production record may be terminated if what has happened to the cow? A) Dried off B) Sold at the sale barn as a cull cow C) Aborted D) All of the above are correct 							
177. After reviewing your recent breeding history for the past month, you contact your nutritionist because you have identified the need to improve conception rates in your herd. She suggests you add what to your rations to improve conception rates because of larger ovarian follicles capable of producing more estrogen, larger corpus luteum and a decrease in embryonic loss? A) Fats B) Carbohydrates C) Vitamins D) Minerals							

178.	An example of a Class I use for milk would be to make A) Hard cheese B) Ice cream C) Chocolate milk D) Dried milk powder
	A) Hard cheese B) ice cream C) Chocolate mink D) Bried mink powder
179.	If the heat detection rate is 40% and the conception rate is 20%, what is the pregnancy rat A) 15% B) 20% C) 60% D) 8%
180.	In U.S. dairy herds the number 1 reason for culling dairy cows is: A) Low milk production B) Lameness C) Mastitis D) Reproductive failure
181.	Which compartment of the ruminant stomach dehydrates partially digested feed? A) Reticulum B) Omasum C) Rumen D) Abomasum
182.	Which of the following dairy breeds originated from a British Channel Island? A) Ayrshire B) Brown Swiss C) Guernsey D) Holstein
183.	Gestation length in dairy cattle can vary due to which of the following factors? A) All of the following B) Breed of the cow C) Season of the year D) Number of calves carried
wron expe died	During a dairy farm visit with your FFA advisor, the dairy farmer asks you what might be not make the provides the following information for you from calvest triencing problems: black feces that looks like engine oil, loose stools and a few calves have as a result. Based on these symptoms and signs, you suspect which issue to be causing the lem?
•	A) Abomasal ulcers B) Ketosis C) Displaced abomasum D) Feed refusal
futur	As an A.I. representative, a dairy producer asks you to help select bulls to improve his re heifers to have the best feet and legs possible. You recommend which of the following sto help achieve this goal? A) Lionel FLC -0.24 B) Ethics FI 2.9 C) Coffee FLC 1.25 D) Babcok REL 90
	Treatment for digital dermatitis includes a foot wrap to keep the lesion dry and in contact the antibiotic powder applied. The wrap should be removed within how many hours or
uays	A) 24 hours B) 6 hours C) 2 days D) 1 week
187.	Milk is what % water? A) 57% B) 67% C) 77% D) 87%
188.	BioPRYN blood test is used to determine what in dairy cattle? A) Pregnancy B) Nitrate toxicity C) Mastitis D) Dystocia

189. It is time to load your cows to bring them home to calve. To be successful in moving the cows you make sure to be mindful of the area where the cows do not want any foreign objects entering. This area is commonly known as? A) Blind spot B) Flight zone C) Comfort zone D) All of the above							
190. Which of the following is NOT considered a macro-mineral? A) Phosphorus B) Potassium C) Sodium D) Iodine							
 191. What is a more common name for erythrocytes? A) Red blood cells B) White blood cells C) Leukocytes D) Somatic cells 							
192. Which of the following is the name of the organization that is charged with evaluating genetic traits of dairy cattle? A) World Dairy Expo B) Animal Improvement Programs Laboratory C) Dairy Business Association D) Dairy Herd Improvement Association							
193. What is the name of the hormone produced by the pituitary that formation hormone?	is known as	the milk					
A) Prolactin B) Progesterone C) Follicle Stimulating F	Iormone	D) Oxyto	ocin				
194. The following information is listed concerning a cow: 365 3X 44,828 3.8 17 Which of the following is NOT correct? A) 365 day lactation B) Milked 2 times per day C) Milk contained 3.8% milk fat D) Milk contained 3.0% protein	703	3.0	1344				
195. What reproductive hormone tends to be high in lactating, pregna A) Oxytocin B) Progesterone C) Prostaglandin D)	ant cows?) Relaxin						
196. If the MUN level is considered high, which nutrient is likely to be A) Fats B) Carbohydrates C) Vitamins D) Protei		?					
197. What metabolic disorder is caused by a deficiency of blood calculated of calcium, phosphorus, and Vitamin D? A) Parturient paresis B) Ketosis C) Grass Tetany		to an imba ty Liver	alance				

198. Name a system or part of the human body that can be adversely affected by a lactose								
intolerance reaction:								
	A) All the following	B) Skin	C) Respiratory	D) Gastrointe	estinal systems			
	199. Which condition is a result of the fetal membranes remaining within the uterus for an extended period of time after calving? A) Retained placenta B) Involution C) Separation of tissues D) Metritis							
200.	200. What is considered the universal standard criteria for breeding dairy heifers?							
		B) Age	C) Height at the		D) Rump width			