2017 Kentucky FFA Dairy Cattle Evaluation CDE

- 1. Which two dairy breeds originated on isles in the English Channel?
 - a. Guernsey and Holstein
 - b. Holstein and Brown Swiss
 - c. Guernsey and Jersey
 - d. Milking Shorthorn and Brown Swiss
- 2. In what city is the World Dairy Expo held each year?
 - a. Louisville, Kentucky
 - b. Madison, Wisconsin
 - c. Sydney, Australia
 - d. Sacramento, California
- 3. What hormone is needed to maintain pregnancy?
 - a. Progesterone
 - b. Oxytocin
 - c. Luteinizing hormone
 - d. Prostaglandin
- 4. Dairy sire semen which has been gender preselected or "sexed" for the sperm cells with the X chromosome will result in what percentage female calves?
 - a. 52 %
 - b. 75%
 - c. 80%
 - d. 90%
- 5. On January 1, 2017, this rule took effect to ensure the judicious use of medically important antimicrobials in food-producing animals. What is this rule called?
 - a. Microbial Feed Incentive
 - b. Veterinary Client Relationship
 - c. Feed Incentive Program
 - d. Veterinary Feed Directive
- 6. A 90 pound Holstein calf should receive this amount of colostrum in the first four hours of life?
 - a. 3 quarts
 - b. 4 quarts
 - c. 6 quarts
 - d. 4 pints
- 7. What term is used to describe when cattle are moved from pasture to pasture to have more forage?
 - a. Rotational Moving
 - b. Rotational Grazing
 - c. Revolving Fencing
 - d. Rotary Grazing

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8.	Most cows will naturally form a mass after dry-off that blocks the teat canal and stops bacteria m entering the teat. What is this mass commonly called?				
nome	a.	Keratin Plug			
	b.	Orbeseal			
	C.	Milk Seal			
	d.	Teat Cannula			
9.	• • •	Which stomach compartment secretes a gastric juice that contains hydrochloric acid?			
<i>J</i> .	a.	Rumen			
	b.	Omasum			
	C.	Reticulum			
	d.	Abomasum			
10.		alf was born March 3, 2016. What class will she show in at the 2017 Kentucky State Fair?			
10.	a.	Junior Calf Class			
	b.	Junior Yearling Class			
	C.	Senior Yearling Class			
	d.	Junior 2 Year old Class			
11.		does a cryoscope measure in milk?			
	a.	Freezing Point of Milk			
	b.	Boiling Point of Milk			
	C.	Somatic Cell Count			
	d.	Thawing Point of Milk			
12.	What	type of shot is given under the skin for cattle?			
	a.	Intravenous			
	b.	Intramuscular			
	c.	Subcutaneous			
	d.	Submerged			
13.	How a	re copper sulfate and formalin frequently used in a herd health program?			
	a.	In a Vaccination Protocol			
	b.	In a Footbath			
	c.	In an Injection			
	d.	Given Orally			
14.	Subclii	nical rumen acidosis occurs when the pH of the cow's rumen drops below this?			
	a.	2.5 pH			
	b.	3.0 pH			
	c.	4.0 pH			
	d.	5.8 pH			
15.	Excess	ive rates of pneumonia in dairy herds are not typically due to cold weather or drafts, but			
often d	due to w	rhat?			
	a.	Inadequate colostrum			
	b.	Inadequate ventilation			
	C.	Inadequate heat lamps			
	d.	Too much bedding			

16.		ry judging contest you place the class of Ayrshire Winter Yearlings 2-4-3-1. The official		
placing is 4-3-2-1 with cuts of 2-4-8. What is your score?				
	a.	36		
	b.	38		
	C.	40		
	d.	44		
17.	Why is	soybean meal commonly added to calf starters?		
	a.	To increase Energy		
	b.	To increase Protein		
	C.	To reduce fines		
	d.	To make it sweeter		
18.	What enzyme is produced in the abomasum that is important for digestion and breaking down			
protein				
	a.	Pepsin		
	b.	Lactase		
	C.	Dehydrogenase		
	d.	Casein		
19.	What is	s the recommended minimum square feet per calf stall?		
	a.	8 square feet		
	b.	12 square feet		
	C.	20 square feet		
	d.	24 square feet		
20.	What is	s the name for failure to expel fetal membranes after parturition?		
	a.	Retained Plasma		
	b.	Retained Placenta		
	C.	Palpation		
	d.	Prolapsed		
21.	What hormone is responsible for milk letdown?			
	a.	Prostaglandin		
	b.	Progesterone		
	c.	Oxytocin		
	d.	Adrenaline		
22.	How many pairs of ribs does a mature cow have?			
	a.	13 pairs		
	b.	12 pairs		
	C.	10 pairs		
	d.	26 pairs		
23.	What is	s the muscular movement that pushes feed down the esophagus called?		
	a.	Rumination		
	b.	Eructation		
	c.	Peristalsis		
	d.	Involution		

24.	What	is the process called where one would insert their arm into the rectum of a cow to
deterr	mine pre	egnancy status by feeling the reproductive tract?
	a.	Peristalsis
	b.	Insemination
	c.	Pasteurization
	d.	Palpation
25.	What	country leads the way in per capita cheese consumption?
	a.	United States
	b.	France
	c.	Germany
	d.	Mexico
26.	At the	e feedbunk and in the holding area, fans should run continuously once the temperature
humic	lity inde	x exceeds what degree?
	a.	68°F
	b.	72 ° F
	c.	88 ° F
	d.	92 ° F
27.	Who	developed the butterfat test that was the basis for DHIA testing?
	a.	Louis Pasteur
	b.	Michele Ruby
	c.	S. M. Babcock
	d.	W. D. Hoard
28.	How	many gallons of water does a lactating cow consume per day?
	a.	20 to 50 gallons
	b.	55 to 80 gallons
	c.	Over 100 gallons
	d.	5 to 10 gallons
29.	Batch	pasteurizers consist of a tank with an element that heats milk to 145 degrees F and
maint	ains the	temperature for how many minutes?
	a.	10 minutes
	b.	30 minutes
	c.	40 minutes
	d.	60 minutes
30.	The p	ractice of breeding dairy heifers based off of what criteria is considered the universal
standa	ard?	
	a.	Body Weight or Size
	b.	Age Only
	C.	Calculated Ratio
	d.	Number of Teeth
31.	What	is the term for an extra teat?
	a.	Superlative Teat
	b.	Sarcopenia Teat
	c.	Supernumerary Teat
	d.	Cytometry Teat

32.	Divid	ing the total dollars a dairy has in assets by the number of cows allows you to determine
which	econoi	mic indicator?
	a.	Total Net Loss Per Cow
	b.	Rolling Herd Average
	C.	Total Income
	d.	Total Investment Per Cow
33.	What	t would the dairyman most likely feed in an attempt to correct or prevent the buildup of
acid ir	the co	w's stomach?
	a.	Sodium bicarbonate
	b.	Urea
	C.	Protein
	d.	Anionic Salts
34.	How	many days does the cow have an active corpus luteum during the estrous cycle?
	a.	8 to 10 days
	b.	12 to 15 days
	C.	20 to 24 days
	d.	30 to 60 days
35.	John	e's infections occur in which specific area of the small intestine?
	a.	Ileum
	b.	Duodenum
	C.	Cecum
	d.	Rectum
36.	A roll	ling herd average is based on how many months?
	a.	10 months
	b.	12 months
	C.	24 months
	d.	36 months
37.	How	many ounces is one serving of milk?
	a.	4 ounces
	b.	6 ounces
	C.	8 ounces
	d.	12 ounces
38.	Name	e the hereditary units that are passed on to offspring via sperm and egg which influence the
expre	ssion of	f specific traits, like hair and eye color?
	a.	Genes
	b.	Markers
	C.	Phenotype
	d.	Genomics
39.	How	many pounds of grain per day should a calf consume before weaning?
	a.	0.5 to 0.75 pounds per day
	b.	5 pounds per day
	c.	1 pound per day
	d.	1.2 to 1.8 pounds per day

40.	Before entering an upright silo, it is important to visually assess the silo for the presence of this			
color silo gas.				
	a.	Green		
	b.	Blue		
	c.	Pink		
	d.	Yellow or Gray/Black		
41.	L. What percentage of your total mixed ration should have a particle sizes of at least o			
	a.	5 %		
		45.07		

- b. 15 %
- c. 20 %
- d. 50 %
- 42. Vitamin A, D, E, and K are example of what kind of vitamin?
 - a. Buffers
 - b. Amino Acids
 - c. Water Soluble
 - d. Fat Soluble
- 43. What is the term for the milking system part which is an automatic valve that allows air to enter or exit the shell alternately?
 - a. Agitator
 - b. Pulsator
 - c. Teat Cup
 - d. Regulator
- 44. Why should a teat dip be used after milking?
 - a. To reduce or prevent udder infections
 - b. To reduce the incidence of antibiotics
 - c. To keep the teats from becoming chapped
 - d. To standardize the milking procedures on all farms
- 45. What is the use of technologies to measure physiological, behavioral and production indicators on individual animals to make production decisions?
 - a. Precise Dairy Farming
 - b. Technology Dairying
 - c. Precision Dairy Farming
 - d. Productive Dairy Farming
- 46. What trace mineral is found in very low levels in all forages and is necessary for a number of body functions and disease resistance as well as being an essential constituent of blood?
 - a. Magnesium
 - b. Sulfur
 - c. Cobalt
 - d. Cooper

- 47. How many pounds of dry matter must a Holstein cow eat a day to meet its maintenance requirements?
 - a. 5 pounds
 - b. 10 pounds
 - c. 20 pounds
 - d. 100 pounds
- 48. Where in the body do secretions from the pancreas, liver and intestine enter?
 - a. Small Intestine
 - b. Cecum
 - c. Large Intestine
 - d. Reticulum
- 49. What metabolic disorder occurs when dry matter intake and body condition loss can't meet the energy demand for milk production and the cow will have low blood glucose, high ketone and free fatty acid levels?
 - a. Milk Fever
 - b. Mastitis
 - c. Ketosis
 - d. Hypomagnesaemia
- 50. Many foreign countries will not accept GMO agriculture products such as corn and soybeans. What do the initials GMO represent?
 - a. Growth Modification Organization
 - b. Global Magnified Organism
 - c. Geometric Modification Organism
 - d. Genetically Modified Organism