



Dairy Cattle Evaluation and Management Career Development Event

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Select the best answer for each of the following 40 questions. Best of luck!

DAIRY MANAGEMENT EXERCISE

1. Holstein heifers should calve at _____ months of age.
 - A. 15
 - B. 18
 - C. 12
 - D. 24
 - E. 26
2. You are dealing with an environmental mastitis problem on the farm. Your vet noticed that the milking staff has incorrect predip technique. He recommends that the predip should stay on the teats _____ for effective environmental mastitis causing pathogen control.
 - A. 5-10 seconds
 - B. 15-30 seconds
 - C. 30-60 seconds
 - D. 60-90 seconds
3. Which one of the following is the minimum amount of silage that should be removed from the exposed surface of a bunker silo each day to prevent spoilage?
 - A. 2 inches
 - B. 6 inches
 - C. 12 inches
 - D. 24 inches

4. High concentrate and low roughage rations may result in
 - A. displaced abomasum
 - B. acidosis
 - C. rumen parakeratosis
 - D. low milk fat
 - E. all of the above
5. If a cow ate 38 lbs of silage that was 64% moisture, how many pounds of dry matter were consumed?
 - A. 14
 - B. 24
 - C. 40
 - D. 67
6. Excess Ca fed during the dry period may induce which of the following metabolic problems?
 - A. Ketosis
 - B. Metritis
 - C. Displaced Abomasum
 - D. Parturient Paresis
7. Fat contains _____ times more calories per unit than a similar amount of carbohydrates, based on gross energy.
 - A. 9
 - B. 5
 - C. 4.25
 - D. 2.25
8. What is the highest possible percent reliability in a sire proof?
 - A. 60%
 - B. 80%
 - C. 90%
 - D. 99%
 - E. 100%

9. What hormone is released by a CIDR?
- A. Estrogen
 - B. Progesterone
 - C. Prostaglandin
 - D. GnRH
10. The corpus luteum produces progesterone to maintain pregnancy and is located:
- A. On the ovary
 - A. On the uterus
 - B. On the oviduct
 - C. Near the hypothalamus
11. On the anterior pituitary Genomic testing is having a significant impact on the dairy genetics business. Running a 3K SNP test has an average 60% reliability of genetic potential on how many genetic markers?
- A. 300
 - B. 3,000
 - C. 30,000
 - D. 300,000
12. Which of the following would be a typical VWP?
- A. 10-30 day
 - B. 45-60 days
 - C. 60-70 days
 - D. 80-100 days
13. You send a sample of corn silage from your trench silo to the lab for nutrient analysis. The report lists the dry matter of the silage at 28%. How many pounds of dry matter are in one ton (2000 pounds) of the silage?
- A. 680
 - B. 560
 - C. 600
 - D. 280

14. Which of the following is the name of the part of a cow's back that lies between the withers and the loin?
 - A. Rump
 - B. Thurl
 - C. Poll
 - D. Chine
15. Switching from 2X to 3X milking, it can be expected to increase production by how much?
 - A. No change
 - B. About 5%
 - C. About 15%
 - D. About 30%
16. The dairy industry average cull rate is _____ %.
 - A. 5-8
 - B. 10-15
 - C. 25-35
 - D. 35-50
17. How many pounds of water does a cow need to consume to produce one pound of milk?
 - A. 5 to 1 pounds
 - B. 4 to 6 pounds
 - C. 2 to 3 pounds
 - D. 10 to 12 pounds
18. The hormone involved with long-day lighting, is released by the pineal gland and is used to set
 - A. an animal's "internal clock."
 - B. melatonin
 - C. bovine somatotropin progesterone
 - D. estrogen oxytocin

19. What is the maximum length of time a cow should be in the holding area for one milking?
- A. 30 minutes
 - B. 60 minutes
 - C. 120 minutes
 - D. 180 minutes
20. What is the minimum bunk space per fresh cow in a fresh cow group?
- E. 12 inches
 - A. 18 inches
 - B. 24 inches
 - C. 30 inches
21. Which of the following could be fed to specifically improve hoof health and hardness?
- A. Carotene Biolyte
 - B. MGA
 - C. Vitamin R
 - D. Biotin
22. Soybean meal contains about % CP.
- A. 32
 - B. 38
 - C. 48
 - D. 54
23. If you are lacking this trace mineral RP's may occur more often.
- A. Ca
 - B. Selenium
 - C. Vitamin E
 - D. Potassium

24. Which of the following tests might indicate inefficient use of dietary protein?
- A. MUN
 - B. DHI
 - C. ELISA
 - D. NEFA
 - E. All of the above
25. When reading a genetic evaluation of a bull, Productive Life (PL) is indicated as the future Productive Life of the bull's daughters. The bull Henry has a PL score of +1. On average, how much longer will his daughters remain productive in the herd?
- A. 1 day
 - B. 1 week
 - C. 1 month 1 year
 - D. 2.25 years
26. You take a sample of milk from your bulk tank and test it using the Delvotest or the Penzyme test. What are you testing the milk for?
- A. Bacteria
 - B. Antibiotics
 - C. SCC
 - D. Type of mastitis
27. In a 300 cow breeding herd with a 50% conception rate, calculate how many cows would need to be bred the third time?
- A. 25
 - B. 50
 - C. 75
 - D. 100

28. The letters DHIA stand for:
- A. Dry Holstein Index Actualization
 - B. Daily Herd Increase Assessment
 - C. Dairy Herd Information Association
 - D. Double Holstein Index Agreement
 - E. Dairy Holstein Index Association
29. A dairy cow is producing 90 pounds of milk per day that contains 4% fat. How much fat is she producing daily?
- A. 4 pounds
 - B. 4.6 pounds
 - C. 3.6 pounds
 - D. 3 pounds
30. In reference to dairy and livestock farms, what does CAFO stand for?
- A. Cows and Fat Cattle Feedlot
 - B. Ordinance Cattle Animals Fending Off
 - C. Concentrated Animal Feeding Operations
 - D. California Feedlot Ordinance
31. Which of the following could be used to increase heat detection rate?
- A. Tail chalking
 - B. Ovsynch
 - C. Kamars
 - D. Milk hormone testing
 - E. All of the above
32. Calves should be weaned when they are consuming _____ pounds of calf starter for 2-3 consecutive days.
- A. 1-3
 - B. 4-5
 - C. 5-7
 - D. 7-10

33. What would be the ideal amount of time a cow would spend per day laying down?
- A. 50%
 - B. 30%
 - C. 20%
 - D. 10%
34. One milking robot should be able to handle about how many cows?
- A. 20 to 30 cows
 - B. 150 to 200 cows
 - C. 110 to 115 cows
 - D. 60 to 70 cows
35. Standard plate count is a measure of bacteria in milk. What is the legal limit?
- A. 100,000
 - B. 400,000
 - C. 750,000
 - D. 1,000,000
36. Oxytocin initiates milk let down and is important to maximize parlor efficiency. Which of these steps will initiate oxytocin production?
- A. Cleaning teat ends
 - B. Forestripping
 - C. Good cow preparation
 - D. All of the above
37. Your cooling fans in the freestall barn should be set to run continuously once the air temperature reaches _____ ?
- A. 70 F
 - B. 61 F
 - C. 83 F
 - D. 92 F

38. What tool might be used to determine proper forage length of chop?
- A. Penn State Particle Separator
 - B. Forage analysis
 - C. Ruler
 - D. CMT
 - E. None of the above
39. What is the major cause of death in calves that are scouring?
- A. alkaline stomach
 - B. lack of energy
 - C. high fever
 - D. dehydration
40. What is the term for the condition when an excessive amount of lymph fluid accumulates between the skin and the secretory tissue of the udder in a cow after calving?
- A. Edema
 - B. Ketosis
 - C. milk fever
 - D. lymphoma