

2024 Tarleton State University Invitational FFA Dairy Cattle CDE Exam

****DO NOT WRITE ON THIS EXAM****

1. Blood vessels that transport blood away from the heart are called:
 - A) Veins
 - B) Capillaries
 - C) Arteries
 - D) Lymphes
2. Milk traits, i.e. fat, protein, SNF and etc., tend to have a heritability of about:
 - A) 51% or more
 - B) 40-50%
 - C) 20-30%
 - D) 10% or less
3. Quality forage is critical for a cow's milk production. Many people evaluate hay based upon its green color; others think the color is a poor indication of nutrient composition. However, green colored hay is generally considered to have a higher _____ content than more bleached out colored forage.
 - A) Net Energy
 - B) Vitamin B3
 - C) Beta-carotene
 - D) Total Digestibility Nutrients
4. How many days into a pregnancy can a fetus be sexed by ultrasound?
 - A) Before 14 days
 - B) Between 40 and 50 days
 - C) Between 14 and 30 days
 - D) After 55 days
5. What do the letters EU stands for?
 - A) Eastern Understanding
 - B) European Union
 - C) European Underline
 - D) Eastern Union
6. To dairymen, the most harmful disease impacting milk production and their economic bottom line is:
 - A) BUW
 - B) Mastitis
 - C) BSE
 - D) Vibriosis
7. A calf's birth weight is approximately ____ % of its mature weight.
 - A) 20
 - B) 1
 - C) 10
 - D) 5
8. Dairy cows produce milk that is relatively high in B complex vitamins. Because they are ruminants:
 - A) Vitamin A will be converted to the Vitamin B complex in the rumen
 - B) Vitamin D will be converted into the Vitamin B complex in the rumen
 - C) It is necessary to supplement the intake of Vitamin B complex
 - D) It is not necessary to supplement the intake of Vitamin B complex
9. Milk that is low in SCC has more casein, which is a primary component in _____ ?
 - A) Butter
 - B) Cream
 - C) Cheese
 - D) Milk
10. What pathway in young calves directs milk into the abomasum, bypassing the rumen, reticulum, and omasum?
 - A) Rumen passinomis
 - B) Masticulas passinomis
 - C) Esophageal groove
 - D) Rumen bypass groove
11. Texas dairies normally must be permitted by the _____ before they begin operations.
 - A) Environmental Protection Agency
 - B) Texas Farm Bureau
 - C) Texas Commission on Environmental Quality
 - D) Dairy Herd Improvement Association
12. Generally, high-producing Holsteins eat _____ pounds of dry matter per day?
 - A) 10-20
 - B) 45-55
 - C) 25-30
 - D) 75-100
13. Many dairy bulls have their nose pierced with a ring in it. This allows for:
 - A) Training of the bull to an electric fence
 - B) Operation of the magnetic latch used for the self feeder
 - C) Restraint and control of the animal
 - D) Individual identification information

14. Normal body temperature for a dairy cow is ____ .

- A) 107.5 degrees F
- B) 99.5 degrees F
- C) 98.5 degrees F
- D) 101.5 degrees F

15. What stomach compartments are not developed in a newborn calf?

- A) Rumen and omasum
- B) Rumen and reticulum
- C) Abomasum and omasum
- D) Abomasum and rumen

16. For best results calves should be fed colostrum within _____ hours of calving:

- A) 3 hours
- B) First day
- C) 6 hours
- D) 1st hour

17. Fermented forage plants relates to:

- A) Flash grazing
- B) Strip grazing
- C) Hay
- D) Silage

18. What bacterium causes cattle tuberculosis (TB)?

- A) Mycobacterium avium
- B) Mycobacterium bovis
- C) Mycobacterium canis
- D) Mycobacterium ovis

19. Mule-foot is found most often in _____ dairy breed?

- A) Jersey
- B) Guernsey
- C) Holstein
- D) Brown Swiss

20. About 90% of U.S. dairies use a _____ milking schedule.

- A) Once/day
- B) Three times/day
- C) Milk on Demand
- D) Twice/day

21. It is widely acknowledged that a calcium/phosphorus ration of about ____ is best for a dairy ration since this mirrors that of the cow's body.

- A) 5:1
- B) 10:1
- C) 1:1
- D) 2:1

22. Which major dairy breed association was the first to use computers to maintain breed registry records?

- A) Milking Shorthorn
- B) Holstein
- C) Guernsey
- D) Jersey

23. Which one of the following is not classified as a fat-soluble vitamin?

- A) Vitamin A
- B) Vitamin B
- C) Vitamin D
- D) Vitamin K

24. On the PDCA Unified Dairy Score Card, the category 'feet and legs' accounts for how many points?

- A) 10
- B) 15
- C) 20
- D) 30

25. When referring to milk test used at the processing plant, what is a DMC?

- A) Direct Micro Compatibility
- B) Direct Measurement Control
- C) Direct Microscopic Counts
- D) Direct Microscopic Cells