

Tarleton State University 2022 State FFA Dairy Cattle Exam KEY

- The only aspect of milk quality that can be completely controlled on the farm is _____.
 - Bacteria Counts
 - Drug Residue**
 - Milk Protein
 - Milk Flavor
- Milk traits, i.e. fat, protein, SNF and etc., tend to have a heritability of about:
 - 10% or less
 - 20-30%**
 - 40-50%
 - 51% or more
- What is Milk Fever paresis caused by?
 - Low blood levels of ionized calcium**
 - Low blood levels of ionized zinc
 - Low blood levels of ionized Vitamin-D
 - Low blood levels of ionized sodium
- Cows that are at risk of developing ketosis can be fed what vitamin to help prevent ketosis?
 - Vitamin-C
 - B-complex
 - Niacin**
 - Zinc
- Which of the following diseases is not caused by a virus?
 - Cow pox
 - BVD
 - Laminitis**
 - Warts
- BST is the acronym for what compound?
 - Bovine Somatotropin**
 - Barn Somatotropin
 - Bovine Special Tinticure
 - Black Sodium Tapestry
- Cattle grazing stressed on wilted hybrid sorghum/Johnson grass type pasture, may die as a result of _____.
 - Nutrient overload
 - Intestinal tract abrasions
 - Nutrient starvation
 - Prussic acid poisoning**
- What should the pH of a “close up” Holstein’s urine be?
 - Between 11.0 and 12.0
 - Between 1.0 and 2.0
 - Between 2.0 and 3.0
 - Between 6.0 and 6.5**
- The _____ is the device responsible for regulating both the vacuum level and the proportion of the vacuum for the front and rear quarters.
 - Pulsator**
 - Claw
 - Inflation
 - Milk meter
- Normal presentation of a calf for parturition will have:
 - One front leg towards the rear of the cow along side head, other front leg down
 - Buttocks of the calf toward rear of the cow with all 4 legs and head facing down
 - Front feet toward rear of the cow with head, nose first, between them**
 - Hind legs towards rear of the cow with head and front legs facing down
- Which one of the following is the name of the part of the cow’s back that lies between the withers and the loin?
 - Thurl
 - Chine**
 - Poll
 - Rump
- What are ways to avoid milk fever in cows?
 - Adding anionic salts to the dry cow ration
 - Fasting dry cows two weeks before calving
 - Feeding low-potassium hay and/or silage to dry cows
 - Both feeding low-potassium hay and/or silage to dry cows AND adding anionic salts to the dry cow ration**
- Endocrinology is the science dealing with _____.
 - Hormones**
 - Lipids
 - The lymphatic system
 - Carbohydrates

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14. How many days after breeding can a pregnancy be detected by ultrasound?
- A. Between 30 and 55 days
 - B. Before 14 days
 - C. Between 28 and 30 days
 - D. Between 14 and 28 days
15. Which purebred dairy breed association introduced a “dairy price stabilization” program in 2009?
- A. Jersey
 - B. Holstein
 - C. Guernsey
 - D. Ayshire
16. What hormone is responsible for maintaining pregnancy?
- A. Progesterone
 - B. Lutalyse
 - C. Oxytocin
 - D. Prostaglandin
17. _____ is a compound that is fermented for flavor in buttermilk and sour cream.
- A. Glucose
 - B. Lactose
 - C. Phosphate
 - D. Citrate
18. Dairy cows produce milk that is relatively high in B complex vitamins. Because they are ruminants:
- A. It is not necessary to supplement the intake of Vitamin B complex
 - B. Vitamin D will be converted into the Vitamin B complex in the rumen
 - C. Vitamin A will be converted to the Vitamin B complex in the rumen
 - D. It is necessary to supplement the intake of Vitamin B complex
19. Which compartment of a dairy cow’s stomach is located closest to the heart and it is a spot where hardware disease occurs?
- A. Omasum
 - B. Abomasum
 - C. Reticulum
 - D. Rumen
20. Which hormone produced by the uterus causes regression of the corpus luteum?
- A. PGF
 - B. FSH
 - C. LH
 - D. GnRH
21. Allelomimetic behavior is defined as:
- A. The tendency for animals to flee
 - B. The tendency for a group of animals to do the same thing at the same time
 - C. The tendency for animals to separate from the herd
 - D. The tendency for animals to produce young with the characteristics of their parts
22. Which one of the following is NOT classified as a water soluble-vitamin?
- A. Niacin
 - B. Biotin
 - C. Folic acid
 - D. Vitamin A
23. Grass Tetany may occur in early lactation cows grazing lush, heavily, fertilized pastures. Grass Tetany is caused by a _____ deficiency.
- A. Magnesium
 - B. Calcium
 - C. Vitamin E
 - D. Thiamine
24. This vitamin plays a role in the coagulation of blood:
- A. Vitamin A
 - B. Vitamin C
 - C. Vitamin K
 - D. Vitamin B12
25. The portion of the ruminant digestive system which consists of many folds of tissue is the:
- A. Abomasum
 - B. Omasum
 - C. Gizzard
 - D. Reticulum