

2008 Senior Dairy Quiz Bowl Questions

Round 02

Phase B 5 Questions Correct answers are worth 10 points each.

Only the team being asked the questions is to be in the room. Each team will be asked these 5 questions. Answers are to be given by a team captain, but assistance may come from any team member. A question may be repeated only once. Answers must be started within 20 seconds. Partial credit may be given at the discretion of the judges. After one team has been questioned, the other team will enter the contest room and be asked the same 5 questions.

1. Grade A milk that is used for fluid consumption is classified into which of the following classes?

- a) Class 1 b) Class 2 c) Class 3 d) Class 4**

ANS: a) Class 1

2. In reference to dairy cattle genetics, which one of the following describes the term reliability?

- a) predictability of a genetic valuation b) accuracy of a genetic valuation
c) marketability of a genetic valuation**

ANS: b) accuracy of a genetic valuation

3. Dairy cattle are most comfortable within which of the following temperature ranges?

- a) 30 to 35 degrees F b) 50 to 55 degrees F c) 70 to 75 degrees F**

ANS: b) 50 to 55 degrees F

4. The disease Cryptosporidiosis (“crypto”) in calves is caused by a protozoan parasite. Which one of the following sections of the digestive system does “crypto” primarily affect?

- a) esophagus b) small intestine c) rumen d) reticulum**

ANS: b) small intestine

5. When formulating rations, nitrogen is a major consideration for dairy nutritionists. Which one of the following is the primary source of nitrogen that is added to the ration?

- a) water b) crude protein c) limestone d) supplemental fat**

ANS: b) crude protein

Phase C 20 Questions Correct answers are worth 15 points each.

Both teams are in the room for Phase C. The first contestant to signal will answer the question within 5 seconds after being acknowledged by the moderator. Failure to do so will cost that team 10 points. Any contestant answering a question without being acknowledged by the moderator will lose 10 points. If an answer is incorrect, members of the other team will have the opportunity to answer the question without having it reread except for true/false, either or and yes or no type questions. If an answer is given in these types of questions, the question will be replaced with a tie breaker question, and given to the other team. No points are deducted for giving an incorrect answer. Team members are not allowed to discuss the answers in this phase. No partial credit is available in Phase C, except for bonus questions. If neither team can offer an answer to the question within 10 seconds, the moderator will give the answer and the question will be dropped but neither team will forfeit points.

1. Which one of the following best describes zoonotic diseases (zoonoses)?

- a) incurable diseases b) subclinical diseases
- c) diseases that are transmitted between vertebrate animals and humans

ANS: c) diseases that are transmitted between vertebrate animals and humans

2. During which season of the year is the demand for milk the highest?

ANS: Fall

3. Which one of the following components of a corn plant is not digestible by the dairy cow?

- a) cellulose b) hemicellulose c) lignin d) corn kernel

ANS: c) lignin

4. What is the common name for BSE (Bovine Spongiform Encephalopathy)?

ANS: "Mad cow disease"

5. In reference to a dairy cow, which one of the following is located between the dew claw and the thigh?

- a) thurl b) knee c) hock d) pastern

ANS: c) hock

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6. What is the name of the manufacturing process that distributes the fat evenly throughout milk?

ANS: Homogenization

7. In North Carolina, what weather-related management issue often decreases milk production during the summer?

ANS: Heat stress

8. On a DHIA record, which of the following describes the number of days from calving until first breeding date?

a) calving interval b) days open c) days to first service

ANS: c) days to first service

9. What is the name of the document that establishes the standards for Grade A milk?

ANS: Pasteurized Milk Ordinance (PMO)

10. What is the name of the current national dairy farmer-funded program that is used to help stabilize milk prices?

ANS: The CWT program which stands for Cooperatives Working Together

11. Which one of the following has the greatest effect on the concentration of fiber in a growing plant?

a) amount of lime applied per acre b) stage of maturity of the plant
c) weed control

ANS: b) stage of maturity of the plant

12. What is the maximum somatic cell count (cells/ml) allowed in milk that is sold in the U.S.?

ANS: 750,000

13. The addition of which one of the following feeds will increase the level of effective fiber in a dairy cow ration?

a) corn grain b) cottonseed meal c) cottonseed hulls d) hominy

ANS: c) cottonseed hulls

14. What is the name of the stomach disorder in which the cow's fourth stomach compartment twists out of normal position?

ANS: Displaced abomasum (DA)

15. What is the name of the bacteria that causes the disease known as "Circling Disease" in cattle?

ANS: Listeria

16. You keep good herd records and you routinely track peak milk production and peak feed intake. Which of these normally occurs first in a lactating dairy cow?

ANS: Peak milk production

17. What is the name of a true fat molecule that contains glycerol and three fatty acids?

ANS: Triglyceride

18. Which of the following describes a completely hydrogenated fat that contains no double bonds?

a) unsaturated fat b) saturated fat c) vegetable oil

ANS: b) saturated fat

19. What is the major cause of death in calves that are scouring?

ANS: Dehydration

20. Your early lactation cow is sick and the veterinarian treats her with propylene glycol. What is the name of the most likely metabolic disease that is being treated?

ANS: Ketosis

Bonus Questions Each bonus question is worth 20 points.

Bonus questions may be earned in the toss-up round. To receive a bonus question, 3 different team members must correctly answer the toss-up questions. Bonus questions are not passed to the other team, nor are points deducted for an incomplete or incorrect answer to the question. Bonus question will be asked whenever 3 team members have answered toss-up questions correctly with the count kept individually for both teams within a match. Eligibility for bonus questions does not carry over to another match. The answers must come from the team captain but assistance can come from the other team members. Only the number or answers required by the bonus question will be accepted. Example: If the bonus has a four-part answer - the first four answers given by the team will be accepted. Answers to a bonus question must start within 20 seconds and be completed within 60 seconds.

1. BLAD is a hereditary disease in Holstein cattle. What does BLAD stand for?

ANS: **Bovine Leukocyte Adhesion Deficiency**

2. In the USDA food pyramid guidelines, how many servings of dairy products per day are recommended for people?

a) 1 b) 2 c) 3 d) 4

ANS: c) 3

3. Which one of the following nutrients is not a B vitamin:

a) biotin b) niacin c) folic acid (folate) d) carotene

ANS: d) carotene