

2009 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. In reference to dairy herd management, which one of the following is the term for “the number of sick animals in a certain period of time”?

- a) mortality rate b) respiratory rate c) morbidity rate**

ANS: c) morbidity rate

2. In reference to dairy cattle genetics, which one of the following is the term for the “accuracy of a genetic valuation”?

- a) predictability b) reliability c) marketability**

ANS: b) reliability

3. Which one of the following is the term for the diet that we feed to dairy cows 2 to 3 weeks before the expected calving date?

- a) transition diet b) high protein diet c) low fiber diet**

ANS: a) transition diet

4. A cow is consuming 90 pounds of actual (as-fed) pounds of a total mixed ration (TMR) each day. This TMR contains 50% dry matter. How many pounds of dry matter is the cow consuming per day?

ANS: 45 pounds of dry matter

Calculation: 90 pounds of actual (as-fed) TMR X 50% dry matter = 45 pounds of dry matter

5. Who invented the continuous cream separator in 1878?

- a) Dr. Westphalia b) Dr. Babcock c) Dr. DeLaval d) Dr. Pasteur**

ANS: c) Dr. DeLaval

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. What is the name of the large blood vein visible in the neck that the veterinarian can use to draw blood from or put in fluid?

ANS: Jugular vein

2. Which one of the following causes Bovine Leukosis?

a) bacteria b) staph c) strep d) virus

ANS: d) virus

3. Which of the following states has the fewest number of dairy farms?

a) Idaho b) Alabama c) Hawaii d) Maryland

ANS: c) Hawaii

4. Which one of the following, when fed in excess, can cause overconditioned (fat) heifers?

a) protein b) fiber c) energy d) calcium

ANS: c) energy

5. Prussic acid is often formed in which one of the following crops?

a) alfalfa b) barley c) frost-damaged sorghum d) cotton

ANS: c) frost-damaged sorghum

6. What is the name of the sugar formed from a combination of glucose and galactose?

ANS: Lactose

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

ANS: The CWT program which stands for Cooperatives Working Together

8. What is the name of the process where plants like alfalfa and clover convert atmospheric nitrogen into nitrogenous compounds that are useful to the plants?

ANS: Nitrogen fixation

9. In a 200 cow breeding herd with a 50% conception rate, calculate how many cows would be bred on the third breeding?

ANS: 50

10. How many amino acids are considered to be essential in the dairy cow and are required in the diet?

ANS: 10

11. Lameness or sore feet is often a sign of which of the following disorders?

a) metritis b) acidosis c) fatty liver d) mastitis

ANS: b) acidosis

12. Which one of the following can be used on the farm to measure the quality of colostrum?

a) pH meter b) voltmeter c) colostrometer d) pasteurizer

ANS: c) colostrometer

13. Which of the following is the name of the organization that is charged with evaluating genetic traits of dairy cattle?

a) Animal Improvement Programs Laboratory b) Dairy Business Association
c) Dairy Herd Improvement Association d) World Dairy Expo

ANS: a) Animal Improvement Programs Laboratory

14. What is the name of the group of hormones, produced in the uterus, that causes regression of the corpus luteum, and contractions of the uterus?

ANS: Prostaglandins

15. What is the term for diseases that are transmitted between vertebrate animals and humans?

ANS: zoonotic diseases (or zoonoses)

16. In addition to increasing milk production, research has shown that biotin improves the health of this part of the dairy cow?

a) lungs b) hoof c) udder d) teats

ANS: b) hoof

17. More than half of the milk sold in the United States is sold where?

a) convenience stores b) supermarkets (grocery) stores c) fast-food restaurants

ANS: b) supermarkets (grocery) stores

18. What is the name of the protein substance produced by the body in response to an antigen?

ANS: antibody

19. How many points are allotted for Dairy Character on the PDCA Dairy Cow Unified Score Card?

ANS: 20

20. At milking time, when should cows that have been treated with antibiotics be milked?

**a) first, before the rest of the herd b) last, after all healthy cows have been milked
c) within their normal group**

ANS: b) last, after all healthy cows have been milked

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. As corn silage ferments properly in the silo, what happens to the pH of the silage?

- a) it increases b) it decreases c) it does not change**

ANS: b) it decreases

2. In reference to the 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

3. What dry period length is best to maximize milk production in the following lactation?

- a) 60 days b) 40 days c) 90 days d) 30 days**

ANS: a) 60 days