

2013 Junior Dairy Quiz Bowl Questions

Round 3

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. Rennet is the name of the enzyme that is added to milk to make what dairy product?

ANS: Cheese

2. Why is sodium bicarbonate (baking soda) commonly added to dairy cow rations?

ANS: To buffer the rumen and to help maintain fat test

3. In a dairy cow, which of the following normally occurs second during the lactation cycle, “peak feed intake” or “peak milk production”?

ANS: Peak feed intake

4. In the United States, dairy farms with this herd size produce the largest percentage of the milk:

a) 100 to 499 cows b) 600 to 900 cows c) 1000 to 2000 cows d) Over 2000 cows

ANS: a) 100 to 499 cows

5. What is a “blind” quarter on a dairy cow?

ANS: A quarter of the udder that does not secrete milk

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. If a feed contains 70% moisture, what percentage dry matter does it contain?

ANS: 30%

2. Which of the following are often included in rations as good sources of rumen undegradable or “bypass” protein?

- a) cottonseed hulls and molasses b) alfalfa hay and corn silage
c) corn gluten meal and blood meal

ANS: c) corn gluten meal and blood meal

3. In reference to milk quality, what is the maximum legal limit of somatic cells concentration (cells/ml) that milk can contain?

ANS: 750,000 cells/ml

4. Bovine spongiform encephalopathy or BSE is more commonly known as what disease?

ANS: Mad Cow Disease

5. When a calf nurses milk, what stomach compartment receives the milk directly?

ANS: Abomasum

6. What muscle keeps the teat end closed and helps prevent organisms from entering the udder?

ANS: Sphincter muscle

7. Which of the following states has the fewest number of dairy cows?

- a) North Carolina b) Virginia c) Alaska d) Mississippi

ANS: c) Alaska

8. What is the proper name for a “yellow body” in the cow’s reproductive system?

- a) ovary b) follicle c) corpus luteum d) uterus

ANS: c) corpus luteum

9. Which of the following is a warm season or C4 grass?

- a) fescue b) alfalfa c) bermuda d) orchardgrass

ANS: c) Bermuda

10. On the PDCA Dairy Cow Unified Score Card, how many points are allotted to udder?

- a) 15 b) 40 c) 20 d) 10

ANS: b) 40

11. Which of the following is the weight of one gallon of whole milk?

- a) 8.6 pounds b) 9.6 pounds c) 10.6 pounds d) 11.6 pounds

ANS: a) 8.6 pounds

12. In reference to a sire summary, what does the abbreviation PTA stand for?

ANS: Predicted Transmitting Ability

13. What does Klebsiella cause in lactating dairy cows?

ANS: mastitis

14. What is the name of the substance in a semen tank that is used to freeze semen straws?

- a) liquid oxygen b) liquid carbon dioxide c) liquid helium d) liquid nitrogen

ANS: d) liquid nitrogen

15. Which one of the following is the main reason why you should keep newborn calves separated from each other?

- a) to reduce fighting among the calves
- b) to prevent transmission of disease
- c) to reduce labor costs

ANS: b) to prevent transmission of disease

16. Which of the following plants is not classified as a legume?

- a) soybean
- b) clover
- c) alfalfa
- d) corn

ANS: d) corn

17. What is the term for the condition involving the ovaries when the cow comes into heat every few days?

- a) lactation
- b) cystic
- c) anestrus
- d) placenta

ANS: b) cystic

18. What is “morbidity rate” in dairy calf management?

- a) the average daily gain of the calves
- b) the number of calf death losses
- c) the number of sick calves in a certain period of time

ANS: c) the number of sick calves in a certain period of time

19. At the end of what major sporting event does the winner traditionally drink milk?

- a) Kentucky Derby
- b) Wimbledon
- c) Indianapolis 500
- d) Super Bowl

ANS: c) Indianapolis 500

20. What do we call the condition in the cow when the abomasum twists out of normal position?

ANS: displaced abomasum (also accept DA)

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. What do the initials NDF stand for on a feed analysis report?

ANS: Neutral Detergent Fiber

2. What is the technical term for the class of chemicals used to kill internal parasites in cattle?

ANS: Anthelmintics (also accept dewormers)

3. In dairy cattle judging, what are you referring to when you describe this part as having a higher and wider attachment?

a) fore udder b) rear udder c) tail head d) muzzle

ANS: b) rear udder