

2009 Junior 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. What is the term for a large, complex protein material that reproduces only inside a host cell and can cause disease?

- a) protozoa b) salmonella c) bacteria d) virus**

ANS: d) virus

2. What is the definition of “days open” on a DHIA report?

- a) number of days in lactation b) number of days from calving to conception**
c) number of days dry

ANS: b) number of days from calving to conception

3. Which of the following are classified as ionophores?

- a) calcium and phosphorous b) Rumensin and Bovatec**
c) magnesium oxide and sodium bicarbonate d) choline and niacin

ANS: b) Rumensin and Bovatec

4. What is the function of the myoepithelium (or myoepithelial cells) in the udder?

- a) produces butterfat b) contractile tissue that forces milk out of the alveoli**
c) produces protein d) prevents mastitis

ANS: b) contractile tissue that forces milk out of the alveoli

5. In what city and state does the annual Jersey Jug Futurity take place?

- a) Madison, Wisconsin b) Harrisburg, Pennsylvania c) Fort Worth, Texas**
d) Louisville, Kentucky

ANS: d) Louisville, Kentucky

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. On the PDCA Dairy Cow Unified Score Card, how many points are assigned to the Frame category?

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

ANS: c) 15

2. What does NDF stand for on a feed analysis report?

ANS: Neutral Detergent Fiber

3. What is the precursor for Vitamin A that is orange in color?

ANS: carotene

4. What trace mineral, when deficient, is associated with white muscle disease in calves?

ANS: selenium

5. What part of the cow's back is located forward of the loin and behind the withers?

ANS: chine

6. Typical milking unit inflations should be replaced after approximately how many milkings?

- a) 100 b) 500 c) 800 d) 1200

ANS: d) 1200

7. What is the name of the gas produced in a manure digester that can be used to make electricity?

ANS: methane

8. What is the scientific term for the product Rumensin?

a) decoquinate b) lasalocid c) monensin d) lactoferrin

ANS: c) monensin

9. What is the standardized lactation length on DHIA records?

a) 150 days b) 305 days c) 280 days d) 405 days

ANS: b) 305 days

10. What is the term for a farm's unique identification number that is part of the National Animal Health Identification System?

ANS: Premises I.D.

11. What is another name for a calf's father?

a) dam b) sire c) progeny d) offspring

ANS: b) sire

12. What test is conducted on milk samples to screen for brucellosis?

ANS: "Ring" test

13. What compartment of the ruminant stomach is similar to the human stomach?

a) abomasum b) reticulum c) omasum d) rumen

ANS: a) abomasum

14. What disease does an increase in milk somatic cell counts indicate?

ANS: mastitis

15. What is the name of the first milk produced by the cow right after calving that contains immunoglobulins?

ANS: colostrum

16. What two amino acids are considered to be first limiting or co-limiting for milk protein synthesis?

- a) methionine and lysine b) arginine and leucine c) valine and tryptophan

ANS: a) methionine and lysine

17. What part of the plant cell wall is not digestible in the rumen?

ANS: lignin

18. How many servings of dairy products per day are currently recommended for people in the USDA food pyramid guidelines?

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

ANS: c) 3

19. What mineral must be adequate in the dairy cow diet to prevent grass tetany?

- a) selenium b) phosphorous c) magnesium d) lysine

ANS: c) magnesium

20. What is the name of the blister-like structure on the ovary that contains the egg before ovulation?

- a) cervix b) uterus c) follicle

ANS: c) follicle

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. On a dairy ration printout, which of the following refers to the energy level in the ration?

- a) RUP b) CP c) NE_L and TDN

ANS: c) NE_L and TDN

2. What has the greatest effect on the concentration of fiber in a growing plant?

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

ANS: a) stage of maturity of the plant

3. In reference to the dairy industry, what does ADSA stand for?

ANS: American Dairy Science Association