

2004 Junior Dairy Quiz Bowl Questions

Round 05

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. Why do dairy farmers often place KAMAR detector's on their cows?

ANS: To detect heat or estrus

2. What is the name of the primary digestive process that occurs in the rumen?

ANS: Fermentation

3. What do the initials DHIA stand for?

ANS: Dairy Herd Improvement Association

4. Which dairy breed originated in the Netherlands?

ANS: Holstein

5. What is the term used to describe the total protein in a feed?

ANS: 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. What does the term “parturient paresis” refer to?

- a) mastitis b) milk fever c) displaced abomasum d) laminitis**

ANS: b) milk fever

2. Corn gluten meal and blood meal are often used in rations as sources of:

- a) degradable protein b) rumen undegradable or “bypass” protein c) carbohydrate
d) fat**

ANS: b) rumen undegradable or “bypass” protein

3. Which of the following forages is classified as a legume?

- a) fescue b) corn silage c) alfalfa d) sorghum**

ANS: c) alfalfa

4. What is the name of the hormone that is secreted by the corpus luteum (yellow body)?

- a) oxytocin b) adrenaline (epinephrine) c) progesterone d) testosterone**

ANS: c) progesterone

5. What does the abbreviation PDCA stand for?

ANS: Purebred Dairy Cattle Association

6. What do we call the first streams of milk stripped from the udder prior to milking?

- a) foremilk b) residual milk c) alveoli d) lactation**

ANS: a) foremilk

7. Which of the six major dairy breeds originated in the United States?

ANS: None of the major dairy cow breeds originated in the United States

8. Which of the following causes Blackleg in cattle?

a) a virus b) a bacterium c) a fungus

ANS: b) a bacterium

9. What is the common name for the disease caused by the bacteria *Mycobacterium paratuberculosis*?

a) Bovine Leukosis Virus (BLV) b) mastitis c) Johne's (pronounced "yo-nees")
disease

ANS: c) Johne's disease

10. How much water (percentage basis) is contained in normal milk?

a) 97.5% b) 87.5% c) 77.5% d) 67.5%

ANS: b) 87.5%

11. What does whole cottonseed contain that gives it a high energy value?

a) protein b) fat c) fiber d) vitamins

ANS: b) fat

12. In cattle grazing lush green pastures, what can a deficiency of magnesium in the diet cause?

a) bloat b) grass tetany c) coccidiosis d) brucellosis

ANS: b) grass tetany

13. Which section of North Carolina has the most dairy cows?

a) Piedmont b) Mountains c) Coastal Plain

ANS: a) Piedmont

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

ANS: Mad Cow Disease

15. Name the hormone that is critical in the initiation and maintenance of lactation:

a) oxytocin b) estrogen c) prolactin

ANS: c) prolactin

16. Where do you deposit the material when an injection is given I.M.?

ANS: Into the muscle

17. What is metritis?

a) an infection of the udder b) an infection of the uterus c) foot rot d) hairy heel warts

ANS: b) an infection of the uterus

18. What is the name for a sterile heifer that is born twin to a bull?

ANS: Freemartin

19. In a newborn calf, which stomach compartment is the largest relative size (as a percentage of the total stomach capacity)?

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

ANS: d) abomasum

20. Which of the following describes the act of stopping the feeding of milk as the main source of nutrition to a calf?

a) drenching b) compensatory growth c) weaning

ANS: c) weaning

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. Warts are caused by a:

a) bacteria b) fungus c) virus

ANS: c) virus

2. Name the four fat-soluble vitamins.

ANS: A, D, E, K

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

ANS: Neutral Detergent Fiber