

2004 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 name for the sugar found in milk?

ANS: Lactose

2. Which parent determines the sex of a calf?

ANS: The sire

3. On a feed analysis report, what do the initials TDN stand for?

ANS: Total Digestible Nutrients

4. True or False

When recommended good milking practices are used, all of the milk is removed from the udder at each milking.

ANS: False

5. What is the name of the first milk produced by the cow immediately after calving that provides passive immunity to the newborn calf?

ANS: colostrum

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 cause acidosis?

a) overfeeding grain b) overfeeding hay c) overfeeding calcium

ANS: a) overfeeding grain

2. What is the name of cowside test that uses a four-compartment paddle to test a sample of milk to identify cows with mastitis?

**a) DHI somatic cell count c) ELISA test
b) strip cup test d) CMT test**

ANS: d) CMT test

3. When a baby calf has scours, not enough fluids are absorbed from the intestinal tract. What problem does this cause?

a) chelation b) rumination c) dehydration

ANS: c) dehydration

4. What metabolic disease is caused by the incomplete metabolism of body fat?

a) Lameness b) Pneumonia c) BVD d) Ketosis

ANS: d.) Ketosis

5. Teat dipping is used to help prevent:

a) rumenitis b) metritis c) laminitis d) mastitis

ANS: d) mastitis

6. In a dairy ration, NE_L and TDN refer to the:

a) energy level b) nitrogen level c) protein level

ANS: a) energy level

7. The normal delivery position when a calf is born is:

a) back feet first b) shoulders first c) front feet first and then the head

ANS: c) front feet first and then the head

8. On a milk production record, what is meant by the term 3X?

ANS: Cows are milked 3 times a day

9. Mycotoxins come from:

a) molds b) bacteria c) sugars

ANS: a) molds

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

a) acidosis c) ketosis
b) milk fever d) displaced abomasum (DA)

ANS: d) displaced abomasum (DA)

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

ANS: Lysine and Methionine

12. What does it mean if a heifer is “overconditioned”?

a) she needs to gain weight b) she is too old c) she is too thin d) she is too fat

ANS: d) she is too fat

13. Which two breeds of dairy cattle originated on islands in the English Channel?

ANS: Guernsey and Jersey

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

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

ANS: a) 15

15. What is the term for an animal that is born without horns?

ANS: Polled

16. Name the hormone that is released when an animal is frightened.

- a) oxytocin b) adrenaline (epinephrine) c) progesterone

ANS: b) adrenaline (epinephrine)

17. During cold weather, what happens to the calf's requirement for energy?

- a) it increases b) it decreases c) it stays the same

ANS: a) it increases

18. At what temperature should milk be held in the farm bulk tank?

- a) 38 degrees F b) 48 degrees F c) 60 degrees F

ANS: a) 38 degrees F

19. Cottonseed hulls are often added to the ration to increase the level of:

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

ANS: d) fiber

20. Ovulation refers to:

- a) release of an egg from a follicle b) milk ejection c) delivering a calf from the uterus

ANS: a) release of an egg from a 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. What is the name of the feed component found in plant cell walls that is not digestible by the cow?

ANS: Lignin

2. (True or False) A warm humid barn is best for raising calves.

ANS: False

3. Which occurs first during the lactation cycle, “peak milk production” or “peak feed intake”?

ANS: Peak milk production