

2006 Junior Dairy Quiz Bowl Questions

Round 01

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 of the first milk produced by the cow immediately after calving that contains immunoglobulins (antibodies)?

ANS: Colostrum

2. What is the name of the precursor of Vitamin A?

ANS: Carotene

3. Name the country where the Holstein breed originated.

ANS: Netherlands (or Holland)

4. What is the name of the test developed at the University of Wisconsin that measures the milk fat (or butterfat) content in milk?

ANS: Babcock test

5. What is the name of the process that is used to destroy bacteria in raw milk?

ANS: Pasteurization

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. In reference to dairy cows, what word is used to describe an infection of the uterus?

- a) winter dysentery b) metritis c) mastitis d) laminitis

ANS: b) metritis

2. What is the normal delivery position when a calf is born?

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

ANS: c) front feet first and then the head

3. What does the abbreviation PDCA stand for?

ANS: Purebred Dairy Cattle Association

4. After a calf has just been born, why should you dip the calf's navel in a 7% tincture of iodine solution?

- a) to give it immunity to disease b) to help the calf to stand up
c) to prevent "joint ill" in the baby calf

ANS: c) to prevent "joint ill" in the baby calf

5. Which of the following is commonly fed to provide supplemental protein to dairy cattle?

- a) corn grain b) straw c) cottonseed hulls d) soybean meal

ANS: d) soybean meal

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

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

ANS: d) 40

7. The normal estrus cycle in a dairy cow is about:

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

ANS: c) 3 weeks

8. In a lactating dairy cow, which of the following is the hormone responsible for milk letdown?

- a) adrenaline b) oxytocin c) progesterone

ANS: b) oxytocin

9. Mycotoxins come from:

- a) sugars b) bacteria c) molds

ANS: c) molds

10. In calves, what is the name of the disease caused by a deficiency of Vitamin D?

- a) salmonella b) E. coli c) Rickets

ANS: c) Rickets

11. What is the standardized lactation length (in days) on DHIA records?

- a) 365 days b) 305 days c) 280 days d) 380 days

ANS: b) 305 days

12. What is another name for the disease "founder" that affects the hooves in dairy cows:

ANS: Laminitis

13. W. D. Hoard was the founder of Hoard's Dairyman magazine. He also became governor of what state?

- a) North Carolina b) New York c) Wisconsin

ANS: c) Wisconsin

14. What hormone causes the heifer or cow to come into heat?

- a) estrogen b) oxytocin c) progesterone d) testosterone

ANS: a) estrogen

15. Approximately how many gallons of blood must pass through the udder in order for the cow to produce one gallon of milk?

- a) 400-500 gallons b) 40-50 gallons c) 10-15 gallons

ANS: a) 400-500 gallons

16. What does it mean if a heifer is "overconditioned"?

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

ANS: b) she is too fat

17. Which of the following terms is used in dairy judging to describe when the hocks are close together when viewed from behind the cow?

- a) foot rot b) sickle-hocked c) cow-hocked

ANS: c) cow-hocked

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

- a) crossbred b) polled c) freemartin

ANS: b) polled

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

ANS: Cows are milked 3 times a day

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

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

ANS: b) 15

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. In a dairy cow, which occurs first during the lactation cycle, “peak milk production” or “peak feed intake”?

ANS: Peak milk production

2. What is used to freeze and store semen for artificial insemination?

ANS: Liquid nitrogen

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

ANS: Neutral Detergent Fiber