

2009 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. What is the name of the condition in a cow after calving when an excessive amount of lymph fluid accumulates between the skin and the secretory tissue of the udder?

- a) bloat b) edema c) metritis d) ketosis**

ANS: b) edema

2. What does "days to first service" refer to on a DHIA record?

- a) number of days from calving until first breeding date b) number of days dry
c) number of days before the milking inflations need to be changed**

ANS: a) number of days from calving until first breeding date

3. If we formulate lactating cow rations with proper amounts of certain amino acids, we can decrease the crude protein content of the ration and reduce which one of the following:

- a) acidosis b) metritis c) nitrogen excretion to the environment d) bloat**

ANS: c) nitrogen excretion to the environment

4. What is the term for the process where, in the presence of light, plants convert carbon dioxide and other elements into simple carbohydrates and oxygen?

ANS: photosynthesis

5. During artificial insemination (A.I.) on a dairy cow, what part of the reproductive tract does the inseminating rod pass through just before the semen is deposited?

- a) fallopian tubes b) uterus c) cervix d) oviduct**

ANS: c) cervix

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 cattle, which of the following does BVD stand for?

- a) a heat detection aid
- b) bovine viral diarrhea
- c) bovine fiber digestibility

ANS: b) bovine viral diarrhea

2. In addition to milk production, what does supplementation of biotin improve in dairy cattle?

ANS: hoof health

3. What is the recommended temperature for washing milk lines and other dairy equipment?

- a) 100 degrees F
- b) 160 degrees F
- c) 200 degrees F

ANS: b) 160 degrees F

4. Why should we give a dairy heifer a special magnet that will stay in her reticulum?

- a) to prevent ketosis
- b) to prevent “hardware disease”
- c) to prevent mastitis

ANS: b) to prevent “hardware disease”

5. CLA found in milk has been shown to have anti-cancerous activity and also have a role in decreasing body fat. What does CLA stand for?

ANS: Conjugated Linoleic Acid

6. Which of the following is classified as a “by-product” feed?

- a) alfalfa b) clover c) triticale d) whole cottonseed

ANS: d) whole cottonseed

7. How many upper front teeth does a dairy cow have?

ANS: none

8. What is the maximum legal limit of somatic cells (cells/ml) that saleable milk can contain?

ANS: 750,000 cells/ml

9. What term describes the “act of calving or giving birth”?

- a) lactation b) gestation c) milk fever d) parturition

ANS: d) parturition

10. What is the term for an injection given just under the skin?

- a) intramuscular b) subcutaneous c) intravenous

ANS: b) subcutaneous

11. What is metritis?

- a) an udder infection b) a foot infection c) a uterus infection

ANS: c) a uterus infection

12. In reference to milk, what does CMT stand for?

ANS: California Mastitis Test

13. What is the term for milk that remains in the udder following machine milking?

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

ANS: d) residual milk

14. What mineral decreases in the blood when a cow has milk fever?

ANS: calcium

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

ANS: 20

16. What is the term for a sterile heifer that is born twin to a bull?

ANS: freemartin

17. In a mature dairy cow what is the largest stomach compartment?

ANS: rumen

18. What does one gallon of whole milk weigh?

a) 10.6 pounds b) 9.6 pounds c) 8.6 pounds d) 7.6 pounds

ANS: c) 8.6 pounds

19. What term describes the appearance and performance characteristics of an animal?

a) heterozygote b) mitosis c) genotype d) phenotype

ANS: d) phenotype

20. What term describes the total energy content of a feed?

a) gross energy b) digestible energy c) net energy

ANS: a) gross energy

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 reference to milk, what does FCM stand for?

ANS: fat-corrected milk

2. What dairy breed is traditionally known for producing milk with the highest percentage of milk fat and milk protein?

ANS: Jersey

3. What is the product “TODAY” (cephapirin sodium) used to treat?

ANS: mastitis