

2011 Senior Dairy Quiz Bowl Questions

Round 03

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. To maintain profit margins, a dairy farmer should be monitoring and making decisions based on the herd's IOFC. What do the initials IOFC stand for?

ANS: Income Over Feed Costs

2. What compartment of the ruminant stomach has a mucus lining to protect the surface from hydrochloric acid (HCL)?

ANS: abomasum

3. Grass or alfalfa silages that are ensiled with too much moisture can result in the formation of an undesirable organic acid that has a strong odor. What is the name of this acid?

ANS: Butyric acid

3. How many years does it take for a conventional dairy farm to transition to certified organic?

ANS: 3 years

4. Which compartment of the cow's stomach is most commonly punctured when she has hardware disease?

ANS: reticulum

5. Define the term morbidity rate.

ANS: number of sick animals

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 embryo transfer, what term describes the animal that receives a fertilized egg from a donor?

ANS: recipient

2. Leukocytes are also called:

a) red blood cells b) white blood cells c) triglycerides

ANS: b) white blood cells

3. What is the minimum amount of silage that should be removed from the exposed surface of a trench silo each day to prevent spoilage?

a) 2 inches b) 6 inches c) 12 inches d) 24 inches

ANS: b) 6 inches

3. The most economical method of cooling cows is:

a) evaporative cooling b) air conditioning c) fans

ANS: a) evaporative cooling

4. Which of the following terms refers to enteritis?

a) brucellosis b) scours c) pneumonia d) acetonemia

ANS: b) scours

5. Write this down: Calculate the pounds of dry matter in one ton of corn silage that contains 35% dry matter:

ANS: 700 pounds of dry matter

Calculation: 2000 pounds of silage times 35% = 700 pounds

6. What is the common name for infectious keraconjunctivitis?

ANS: pinkeye

7. What generally happens to a cow's body weight during the first 60 days of her lactation?

ANS: it decreases

8. In addition to milk and water, a calf with scours should be supplemented with what oral treatment to prevent dehydration?

ANS: electrolytes

9. Your veterinarian recommends that you treat your cows with an anthelmintic. What will this treat in the cows?

ANS: internal parasites (also accept worms)

10. What is casein?

ANS: the primary protein found in milk

11. Which one of the following is the term for the sum total of all an individual organism's genes?

a) organelle

b) genome

c) chromosome

ANS: b) genome

12. During which season is milk in the greatest demand?

ANS: Fall

13. ME production is a way to compare younger cows against older cows. What does ME stand for?

ANS: Mature Equivalent

14. Cryptosporidiosis (crypto) affects this part of the digestive system:

- a) reticulum b) rumen c) small intestine d) omasum

ANS: c) small intestine

15. What is the name of the process where legume plants like alfalfa and clover convert atmospheric nitrogen into nitrogenous compounds that are useful to the plants?

ANS: Nitrogen fixation

16. How many points are allotted for Rear Feet and Legs on the new PDCA Dairy Cow Unified Score Card?

ANS: 20

17. In the dairy cow's reproductive system, which one of the following does the ovary produce?

- a) testosterone b) cortisol c) estrogen d) lactose

ANS: c) estrogen

18. What is the term that refers to practices that prevent the introduction or spread of disease on the farm?

ANS: Biosecurity

19. Lameness or sore feet is often a sign of what digestive disorder?

ANS: Acidosis

20. Your veterinarian took a sample of milk and tested it using the Delvotest or the Penzyme test. For what was your veterinarian checking?

ANS: Antibiotics

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. Propylene glycol is often used to treat what metabolic disease?

ANS: Ketosis

2. Who is considered to be the father of modern genetics?

a) Louis Pasteur b) Gregor Mendel c) Gustav DeLaval d) Marie Curie

ANS: b) Gregor Mendel

3. Tarsal hygroma is the medical name for what common cow ailment?

a) acidosis b) dehydration c) metritis d) swollen hock

ANS: d) swollen hock