

2012 Senior 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. The Net Energy requirement of lactating cows is closest to:

- a) .75 Mcal/lb      b) 1.2 Mcal/lb      c) 2.0 Mcal/lb

ANS: a) .75 Mcal/lb

2. To help prevent milk fever, which of the following is the best time to feed anionic salts to dairy cows?

- a) during the 3 weeks after calving      b) during the 2 weeks before calving  
c) at the beginning of the dry period

ANS: b) during the 2 weeks before calving

3. Which part of the digestive system does Cryptosporidiosis (crypto) affect?

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

ANS: c) small intestine

4. What is the term for a completely hydrogenated fat that contains no double bonds?

- a) unsaturated fat      b) vegetable oil      c) saturated fat

ANS: c) saturated fat

5. Which one of the following normally occurs first during a lactation cycle:

- a) peak feed intake    b) body weight gain    c) peak milk production

ANS: c) peak milk production

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 class of nutrient is the major source of energy in a cow's diet?**  
ANS: carbohydrates
  
2.      **What does a cow do to release gas from rumen?**  
ANS: she belches or eructates
  
3.      **If you have a 100-lb bag of feed, and 14% of it is protein, how many pounds of the bag is protein?**  
ANS: 14 lbs.
  
4.      **The letters BLV stand for what disease of dairy cattle?**  
ANS: Bovine Leukosis Virus
  
5.      **What is the more scientific name for the disease known as Circling Disease?**  
ANS: Listeriosis
  
6.      **Diuretic drugs are occasionally used after calving as a treatment for what condition?**  
ANS: udder edema
  
7.      **What milk component is the major determinant of the amount of cheese yield from milk?**  
ANS: Protein
  
8.      **In addition to Carbon and Oxygen, what element is contained in carbohydrates?**  
ANS: Hydrogen

**9. What type of solution should be painted on a calf's navel soon after birth?**

ANS: 7% Iodine solution

**10. What is the name of the enzyme needed by humans to digest the milk sugar lactose?**

ANS: Lactase

**11. What is the name of the vein located on the side of the cow's neck that is often used for intravenous injections?**

ANS: jugular vein

**12. What is the name of the milk that remains in the mammary gland following the completion of milking?**

ANS: Residual Milk

**13. 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

**14. What percentage of nitrogen do most proteins contain?**

a) 12%      b) 16%      c) 20 %      d) 24%

ANS: b) 16%

**15. Name the part of the milking system that causes the alternate vacuum pressure between the teat cup shell and liner.**

ANS: Pulsator

**16. The disease acetonemia is more commonly referred to as this:**

ANS: Ketosis

**17. Where in the cell are chromosomes found?**

ANS: Nucleus

**18. The corpus luteum (CL) is also known as what?**

ANS: Yellow body

**19. In terms of heat stress, what does THI stand for?**

ANS: Temperature Humidity Index

**20. What is the name of the absorptive tissue that lines the small intestine?**

ANS: Villi

**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 term used to describe a group of dairy producers such as Maryland-Virginia Milk Producers who join together to market their milk?**

ANS: a Cooperative

**2. During what season of the year is Vitamin D most needed from the diet in humans?**

ANS: Winter

**3. This term refers to the total energy in a feed minus the energy lost in feces.**

ANS: Digestible energy