

2013 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. In reference to dairy cattle genetics, which one of the following describes the term "reliability"?

- a) the predictability of a genetic valuation
- b) the marketability of a genetic valuation
- c) the accuracy of a genetic valuation

ANS: c) the accuracy of a genetic valuation

2. When formulating rations, nitrogen is a major consideration for dairy nutritionists. Which one of the following is the primary source of nitrogen that is added to the ration?

- a) limestone
- b) fat
- c) water
- d) crude protein

ANS: d) crude protein

3. One of your recently fresh cows is ill. She has been receiving a high grain, low roughage diet. The consistency of the small amount of manure she produces is "putty-like". Your veterinarian detects a "pinging" sound when using his stethoscope. What is the most likely diagnosis?

ANS: Left Displaced Abomasum (also accept LDA; DA; or displaced abomasum)

4. The protein percentage of first milking colostrum is approximately:

- a) 1/2 that found in normal whole milk
- b) two times that found in normal whole milk
- c) 5 times that found in normal whole milk

ANS: c) 5 times that found in normal whole milk

5. Which one of the following is the name of the disease caused by a bacterial infection of a spiral shaped bacterium (spirochete) called Borrellia burgdorferi?

- a) pasturella
- b) shipping fever
- c) Lymes disease
- d) Johnes disease

ANS: c) Lymes disease

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. How many points are allotted for dairy strength on the new PDCA Dairy Cow Unified Score Card?

ANS: 25

2. What is the more common name for "ruminal tympany"?

ANS: bloat

3. In a dairy cow, what is the name of the thick-walled fibrous tube that serves as a gateway between the vagina and the uterus?

ANS: cervix

4. What hormone is secreted by the corpus luteum?

ANS: progesterone

5. What is "dystocia"?

ANS: an abnormal or difficult calving

6. Where does fertilization of the ova take place?

ANS: Oviduct

7. Name the part of the cow that is located between the dew claw and the hoof.

ANS: pastern

8. What was the name of the Professor at the University of Wisconsin who developed the butterfat (milk fat) test that was the basis for DHIA testing?

- a) Dr. Westphalia b) Dr. Pasteur c) Dr. Babcock d) Dr. Crave

ANS: c) Dr. Babcock

9. When during the lactation cycle is it most efficient for a high producing cow to regain her body condition?

ANS: In late lactation

10. 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

11. Which of the following countries has the greatest population of dairy cows?

- a) United States b) France c) Denmark d) India

ANS: d) India

12. What are the secretory cells in the mammary gland that are arranged in grape-like structures called?

ANS: alveoli

13. What is the name of the bacteria that causes "Circling Disease" in cattle?

ANS: Listeria

14. How many amino acids are considered to be essential in the dairy cow?

ANS: 10

15. In genetics, genes are known as:

- a) chromosomes b) nucleus c) units of inheritance d) mitochondria

ANS: c) units of inheritance

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

- a) .75 Mcal/lb b) 1.5 Mcal/lb c) 2.0 Mcal/lb

ANS: a) .75 Mcal/lb

17. What is the name of the large blood vein visible in the neck that the veterinarian can use to draw blood from or put in fluid?

ANS: Jugular vein

18. How many pounds does a bushel of shelled corn weigh?

ANS: 56 lbs

19. In reference to body condition, what does emaciated mean?

ANS: Very thin

20. Where, in the dairy cow's reproductive system, is estrogen produced?

ANS: the ovary

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 gas with the chemical structure CH₄ is produced in the rumen?

ANS: methane

2. Which amino acid is highest in corn gluten meal?

ANS: methionine

3. What is the approximate percentage of dairy calves born in the U.S. that are bulls?

a) 42% b) 52% c) 62%

ANS: c) 52%