

2016 Senior Dairy Quiz Bowl Questions

Round 02

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. Which of the following is the name of the organization that is charged with evaluating genetic traits of dairy cattle?

- a) Animal Improvement Programs Laboratory b) Dairy Business Association
c) Dairy Herd Improvement Association d) World Dairy Expo

ANS: a) Animal Improvement Programs Laboratory

2. Which of the following is the name of the iron-binding protein found in milk that has anti-microbial activity.

- a) selenium b) IgG c) lactoferrin d) alkaline phosphatase

ANS: c) lactoferrin

3. In reference to dairy herd management, which one of the following is the term for “the number of sick animals in a certain period of time”?

- a) mortality rate b) respiratory rate c) morbidity rate

ANS: c) morbidity rate

4. The disease Cryptosporidiosis (“crypto”) in calves is caused by a protozoan parasite. Which one of the following sections of the digestive system does “crypto” primarily affect?

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

ANS: b) small intestine

5. Who invented the continuous cream separator in 1878?

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

ANS: c) Dr. DeLaval

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. When referring to dairy rations what does the acronym DCAD stand for?

ANS: dietary cation-anion difference

2. Which compartment of the ruminant stomach functions to squeeze fluid out of the digesta and is also known as "manyplies":

a) rumen b) reticulum c) omasum d) abomasum

ANS: c) omasum

3. What is the more common name for papillomas?

ANS: warts

4. Prussic acid is often formed in which one of the following crops?

a) alfalfa b) barley c) frost-damaged sorghum d) cotton

ANS: c) frost-damaged sorghum

5. Which of the following states has the fewest number of dairy farms?

a) Idaho b) Alabama c) Hawaii d) Maryland

ANS: c) Hawaii

6. Which of the following is not a legume:

a) soybeans b) triticale c) red clover d) lespedeza

ANS: b) triticale

7. In reference to animal agriculture, what does CAFO stand for?

ANS: Concentrated Animal Feeding Operations

8. What is the condition called when fetal membranes do not pass from the cow within 12 hours of calving?

ANS: retained placenta (also accept RFM or retained fetal membranes)

9. In a 200 cow breeding herd with a 50% conception rate, calculate how many cows would be bred on the third breeding?

ANS: 50

10. What is the name of the document that establishes the standards for Grade A milk?

ANS: Pasteurized Milk Ordinance (PMO)

11. Which one of the following has the greatest effect on the concentration of fiber in a growing plant?

- a) amount of lime applied per acre b) stage of maturity of the plant
c) weed control

ANS: b) stage of maturity of the plant

12. Which professional sports league is partnering with the dairy check-off to promote child nutrition and fitness?

ANS: National Football League (NFL)

13. Lameness or sore feet is often a sign of which of the following disorders?

- a) metritis b) acidosis c) fatty liver d) mastitis

ANS: b) acidosis

14. When comparing fertility in dairy animals, which of the following are usually the least fertile?

- a) heifers b) second lactation cows c) third lactation cows d) aged cows

ANS: d) aged cows

15. Which one of the following refers to a bull's offspring?

- a) grandsire b) litter c) progeny d) flock

ANS: c) progeny

16. According to the PDCA Dairy Cow Unified Score Card, the term "stature" fits into which category?

ANS: Frame

17. What is the name of a true fat molecule that contains glycerol and three fatty acids?

ANS: Triglyceride

18. What is the name of the protein substance produced by the body in response to an antigen?

ANS: antibody

19. The milk ring test is a test for what disease?

ANS: brucellosis (also accept bangs disease)

20. In the reproductive system of a dairy cow, what is the common name for the term "corpus luteum"?

ANS: yellow body

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. As corn silage ferments properly in the silo, what happens to the pH of the silage?

- a) it increases b) it decreases c) it does not change**

ANS: b) it decreases

2. In reference to the dairy cow, which one of the following is located between the dew claw and the thigh?

- a) thurl b) knee c) hock d) pastern**

ANS: c) hock

3. Which one of the following nutrients is not a B vitamin:

- a) biotin b) niacin c) folic acid (folate) d) carotene**

ANS: d) carotene