

2016 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. In humans, what is caused by a lack of the enzyme lactase in the small intestine?

ANS: Lactose intolerance

3. 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

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

ANS: 3 years

4. Which of the following is the term for the amount of heat required to raise the temperature of one gram of water from 14.5 degrees C to 15.5 degrees C?

- a) TDN
- b) NE
- c) calorie
- d) heat increment

ANS: c) calorie

5. Supernumerary teats in dairy cattle:

- a). help to increase milk production
- b). are extra teats that are nonfunctional
- c) means that a teat is infected with mastitis

ANS: b). are extra teats that are nonfunctional

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. In what state in the national office of the American Jersey Cattle Association located?

ANS: Ohio

4. Which one of the following would be the least desirable feed for the week old calf?

a) calf starter b) whole milk c) milk replacer d) corn silage

ANS: d) corn silage

5. What is the name of the mycotoxin, sometimes found in corn, that is of concern because it is carcinogenic and has the possibility of contaminating the human food supply?

ANS: Aflatoxin

6. 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

7. What is the common name for infectious keraconjunctivitis?

ANS: pinkeye

8. How many double bonds are found in a completely hydrogenated saturated fat?

ANS: None

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

ANS: electrolytes

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. 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

14. What is the term for "an inflammation of the lining of the uterus"?

ANS: endometritis

15. What is the name of the bacteria that causes the disease known as "Circling Disease" in cattle?

ANS: Listeria

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

ANS: 20

17. Which dairy breed has the most registered animals in the United States?

ANS: Holstein

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

ANS: Biosecurity

19. In dairy cattle judging, which of the following is not part of the topline?

a) loin b) chine c) thurl

ANS: c) thurl

20. Which of the following is not a primary organism associated with mastitis:

a) Staphylococcus aureus b) Streptococcus agalactia c) Streptococcus uberous
d) Brucella abortus

ANS: d) Brucella abortus

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. If refrigerated properly, pasteurized and homogenized milk remains fresh for how many days after the expiration date?

- a) 2 to 3 days b) 4 to 5 days c) 7 to 10 days d) 12 to 14 days

ANS: c) 7 to 10 days

2. Corn distiller's grains is high in this amino acid that is essential for milk production:

- a) lysine b) tryptophan c) arginine d) methionine

ANS: d) methionine

3. Which one of the following countries has reported the most cases of BSE since 2003?

- a) Canada b) United Kingdom c) Japan d) United States

ANS: b) United Kingdom