

2013 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 one of the following is a disease commonly associated with reproductive failure and abortion in dairy cattle?

- a) coccidiosis b) leptospirosis c) ketosis**

ANS: b) leptospirosis

2. Three thousand (3000) pounds of milk should yield about how many pounds of hard cheese?

ANS: 300 pounds of hard cheese

3. Which of the following is the main advantage to using a “Brown Midrib” variety for corn silage?

- a) higher silage yields b) higher protein content c) lower lignin content and greater fiber digestibility**

ANS: c) lower lignin content and greater fiber digestibility

4. What vitamin boosts the immune system, helps with secretion and regulation of insulin by the pancreas, regulates heart and blood pressure, improves muscle strength and brain activity and is long known for preventing rickets.

ANS: Vitamin D

5. Prostaglandins are hormones that cause regression of the corpus luteum, and contractions of the uterus. Where in the cow’s reproductive system are prostaglandins produced?

ANS: In the uterus

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. Whey is the name of the byproduct that is recovered during the making of what dairy product?

ANS: Cheese

2. On the PDCA scorecard, how many points are allocated for “Rear Feet and Legs”?

ANS: 20 points

3. What is the name of the virus that causes small blisters on the teats followed by sores and scabs and can be spread by the milker?

a) Staph aureus b) cow pox c) mastitis d) metritis

ANS: b) cow pox

4. What metabolic disease that occurs in early lactation dairy cows is often treated with propylene glycol?

ANS: ketosis

5. What part of the cow’s back lies between the loin and the tail head?

ANS: Rump

6. What does P.I. stand for in reference to milk quality testing?

ANS: Preliminary Incubation

7. During the digestive process, what enzyme functions to break down fat (or lipids)?

- a) cellulase b) lactase c) lipase d) pepsin

ANS: c) lipase

8. In what part of the digestive tract are IgG's absorbed into the bloodstream in the newborn calf?

ANS: small intestine

9. High levels of iron in a dairy cow's diet can decrease the availability of what two elements?

- a) selenium and cobalt b) chlorine and sodium c) copper and zinc

ANS: c) copper and zinc

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

ANS: Gregor Mendel

11. The most economical method of cooling cows is:

- a) evaporative cooling b) air conditioning c) fans

ANS: a) evaporative cooling

12. What part of the calf digestive system does Cryptosporidiosis (crypto) affect?

ANS: small intestine

13. What is the predominant class of immunoglobulins (Ig's) found in bovine colostrum?

ANS: IgG

14. What is the wax-like material that lines the teat canal?

ANS: keratin

15. Carbon, hydrogen, oxygen and nitrogen are the four basic elements present in:

- a) carbohydrates b) lipids c) protein d) triglycerides

ANS: c) protein

16. Biotin, in addition to increasing milk production, has a positive effect on which one of the following parts of a dairy cow?

- a) lungs b) teats c) udder d) hoof**

ANS: d) hoof

17. What is metritis?

ANS: an infected uterus

18 . What causes ringworm in cattle?

ANS: a fungus

19. What is the process of heating milk to destroy pathogenic bacteria called?

ANS: pasteurization

20. Mycobacterium paratuberculosis is the cause of what disease in dairy cattle?

ANS: Johne's Disease

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. Which one of the following is the main function of the omasum?

- a) trap foreign objects b) produce microbial protein
- c) contain the ovary d) squeeze fluid out of the digesta

ANS: d) squeeze fluid out of the digesta

2. Name the part of the cow that is located at the bottom end of the tail:

ANS: Switch

3. What is the life cycle (in number of days) for a fly to grow from an egg to an adult?

- a) 100 days b) 50 days c) 10 days d) 5 days

ANS: c) 10 days