

2012 Junior Dairy Quiz Bowl Questions

Round 04

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. What is determined by multiplying the nitrogen content of a feed by 6.25?

- a) crude protein b) carbohydrate content c) energy level**

ANS: a) crude protein

2. What term describes a calf that is born dead?

ANS: Stillbirth or Stillborn

3. What is the common name for the disease Bovine Spongiform Encephalopathy (BSE)?

ANS: Mad Cow Disease

4. What is the average duration of standing heat in a dairy cow?

- a) 2-4 hours b) 12-18 hours c) 18-24 hours d) 24-36 hours**

ANS: b) 12-18 hours

5. Which of the following is the most common bacterium that causes chronic mastitis?

- a) E. coli b) Klebsiella c) Staph. aureus d) Strep. uberis**

ANS: c) Staph. aureus

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 is the primary sugar found in milk?

- a) lactose b) cellulose c) sucrose

ANS: a) lactose

2. How many pairs of chromosomes do dairy cattle have?

ANS: 30

3. What is the approximate gestation length for a dairy cow?

- a) 21 days b) 340 days c) 150 days d) 280 days

ANS: d) 280 days

4. What is the name of the piece of equipment in a milking system which keeps vacuum at a constant level?

- a) regulator b) pulsator c) claw d) inflation

ANS: a) regulator

5. What do the letters CIP stand for when referring to equipment sanitation?

ANS: Clean-in-place

6. The Guernsey breed originated on a British Channel Island. What other dairy breed originated on a Channel Island?

ANS: Jersey

7. How many pounds of milk would it take to make 12 pounds of cheese?

ANS: 120

8. What is the name of the seal that assures the customer that the product they are purchasing is a genuine dairy product?

ANS: The “Real Seal”

9. During cold weather, what happens to a calf’s need for energy?

ANS: It increases

10. What is the name of the small projections that line the wall of the small intestine and function to absorb nutrients?

ANS: Villi

11. What happens to the body weight of an early lactation dairy cow when she enters the negative energy balance phase of the lactation cycle?

a) it increases b) it decreases c) it stays the same

ANS: b) it decreases

12. What is the name used for a diagram of a dairy animal’s ancestors?

a) sire summary b) pedigree c) PC-DART

ANS: b) pedigree

13. What test is used to measure the bacteria count in raw milk?

a) Delvo test b) Standard Plate Count c) cryoscopic test count

ANS: b) Standard Plate Count

14. Which one of the following is the greatest cause of a displaced abomasum?

a) excess protein b) genetic defects c) low fiber rations

ANS: c) low fiber rations

15. Anaerobic manure digesters convert what gas into electricity?

ANS: Methane

16. Which of the following is a type of protein found in colostrum that provides passive immunity to the calf?

- a) somatic cells b) immunoglobulins c) erythrocytes

ANS: b) immunoglobulins

17. The time period after calving when you choose not to breed a cow is abbreviated VWP. What does VWP stand for?

ANS: Voluntary Waiting Period

18. Which breed has its major All-American Show in Louisville, Kentucky?

ANS: Jersey

19. The process of flushing fertilized eggs from donor cows and implanting them in recipient cows is called:

- a) artificial insemination b) gestation c) embryo transfer

ANS: c) embryo transfer

20. What is the minimum legal butterfat percentage found in processed whole milk?

- a) 2% b) 3.25% c) 3.75% d) 4%

ANS: 3.25%

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. Dry matter intake by lactating Holstein cows generally averages about:

- a) 20 to 30 lbs. b) 45 to 50 lbs. c) 90 to 100 lbs.**

ANS: b) 45 to 50 lbs.

2. What is the minimum amount of silage that should be removed from the exposed surface of a trench silo each day to prevent spoilage?

- a) 2 inches b) 6 inches c) 12 inches d) 24 inches**

ANS: b) 6 inches

3. What is a normal birth weight for a Jersey calf?

- a) 30-40 lb b) 50-60 lb c) 80-90 lb d) 100-120 lb**

ANS: b) 50-60 lb