

2012 Junior 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 is not a part of the cow's small intestine?

- a) duodenum b) ileum c) jejunum d) colon

ANS: d) colon

2. After peak milk production is attained, the cow's milk production starts to decline. What is the rate of decline or the steepness of the slope of this milk production curve called?

- a) negative energy balance b) persistency c) feed efficiency

ANS: b) persistency

3. Cellulose, hemicellulose and lignin are the components of:

- a) acid detergent fiber (ADF)
b) crude protein
c) neutral detergent fiber (NDF)
d) rumen-undegradable protein (RUP)

ANS: c) neutral detergent fiber (NDF)

4. Which of the following is the term for a completely hydrogenated fat that contains no double bonds?

- a) unsaturated fat b) saturated fat c) vegetable oil

ANS: b) saturated fat

5. What does MUN stand for?

ANS: Milk Urea Nitrogen

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. Which one of the following can be used on the farm to measure the quality of colostrum?

- a) pH meter b) voltmeter c) colostrometer d) pasteurizer

ANS: c) colostrometer

2. Many dairy farmers calculate IOFC to help evaluate their profitability. What does the abbreviation IOFC stand for?

ANS: Income over feed cost(s)

3. What is the name of the foundation that provides the majority of the funding support for the North Carolina Dairy Youth Program?

ANS: North Carolina Dairy Youth Foundation

4. What nutritional disease is most often associated with laminitis (founder) in dairy cows?

ANS: acidosis

5. Which one of the following can happen when we feed excess crude protein in the ration?

- a) acidosis b) fatty liver c) decrease fertility

ANS: c) decrease fertility

6. What does the term “3X” in a dairy cow's production records stand for?

ANS: the cow is milked 3 times each day

7. What is the name of the condition when a cow comes in heat every few days?

ANS: Cystic

8. What accounts for 55-60% of total dairy farm costs?

ANS: Feed

9. Dairy Strength is given how many points on the PDCA Dairy Cow Unified Scorecard?

ANS: 25 points

10. What is the name for the tube that connects the mouth to the rumen?

ANS: Esophagus

11. At the end of a Holstein animal registration name, what do the letters E-T stand for?

ANS: Embryo Transfer

12. Which of the following is a warm season or C4 grass?

- a) fescue
- b) alfalfa
- c) bermuda
- d) orchardgrass

ANS: c) bermuda

13. What term describes the average number of days between the latest two calving dates for all cows in the herd?

- a) Days open
- b) Dry period
- c) Calving interval

ANS: c) Calving Interval

14. Ovulation is the process of:

- a) release of an egg from a follicle
- b) milk ejection from an alveolus
- c) delivering a calf from the uterus

ANS: a) release of an egg from a follicle

15. What is the measure of how well a cow turns feed into milk?

- a) average daily gain
- b) feed efficiency
- c) fat-corrected milk

ANS: b) feed efficiency

16. In a 4-H dairy cattle judging contest, how many minutes are allowed for you to present a set of oral reasons?

ANS: 2 minutes

17. Who was responsible for developing the butterfat test that was the basis for DHIA testing?

ANS: S. M. Babcock

18. Who is Steve Troxler?

ANS: the current Commissioner of Agriculture in North Carolina

19. Which of the following is the most costly form of mastitis?

- a) subclinical
- b) acute
- c) clinical
- d) flaky

ANS: a) subclinical

20. Which one of the following is the term for the diet that we feed to dairy cows 2 to 3 weeks before the expected calving date?

- a) transition diet
- b) high protein diet
- c) low fiber diet

ANS: a) transition diet

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 of the following feeds contains the most protein?

- a) wet brewer's grains b) wheat middlings c) corn gluten meal

ANS: c) corn gluten meal

2. If a feed sample contains 55% moisture, what percentage dry matter is it?

ANS: 45% dry matter

3. The abbreviation "CWT" indicates how many pounds of milk?

ANS: 100 pounds (hundredweight)