

2010 Junior 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. Which one of the following is not a B-vitamin?

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

ANS: a) carotene

2. Spell the name of the breed of dairy cow that is reddish-brown and white colored and originated in Scotland.

ANS: A-Y-R-S-H-I-R-E

3. 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

4. Dry matter is the amount of feed left after what is removed?

ANS: water

5. Name four of the six classes of nutrients.

ANS: proteins, carbohydrates, lipids (fats or oils), vitamins, minerals, water

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 does MUN stand for?

ANS: Milk Urea Nitrogen

2. Which of the following dry period lengths will maximize milk production in the following lactation?

a) 90 days b) 60 days c) 30 days d) 10 days

ANS: b) 60 days

3. Which of the following states had the smallest number of dairy cows in 2009?

a) Nebraska b) Louisiana c) Alaska d) Mississippi

ANS: c) Alaska

4. 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

5. More than half of the milk sold in the United States is sold where?

a) convenience stores b) supermarkets (grocery) stores c) fast-food restaurants

ANS: b) supermarkets (grocery) stores

6. Which of the following is not classified as a water-soluble vitamin?

- a) folic acid b) thiamine c) Vitamin C d) Vitamin A

ANS: d) Vitamin A

7. What is the maximum somatic cell count (cells/ml) allowed in Grade A milk sold in the U.S.?

ANS: 750,000 (cells/ml)

8. What is the most common disease caused by *Staph. aureus*, *Strep. uberis*, and *Klebsiella*?

ANS: mastitis

9. Milk should be cooled to which of the following temperatures within 30 minutes after milking is completed?

- a) 50 ° F b) 38° F c) 20° F d) 15 ° F

ANS: b) 38° F

10. 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

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

ANS: Embryo Transfer

12. 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

13. Dairy calves typically are weaned at what age?

- a) 2-4 weeks b) 6-8 weeks c) 12-14 weeks d) 18-20 weeks

ANS: b) 6-8 weeks

14. On average, cows have a flight zone of how many feet?

- a) 1 foot b) 5 feet c) 12 feet d) 20 feet

ANS: b) 5 feet

15. What does the abbreviation “TMR” stand for?

ANS: Total Mixed Ration

16. *Hoard’s Dairyman* was first published in what year?

- a) 1860 b) 1885 c) 1908 d) 1945

ANS: b) 1885

17. Which of the following minerals is a cation that contributes to the dietary cation-anion difference?

- a) iodine b) calcium c) potassium d) chlorine

ANS: c) potassium

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

ANS: pasteurization

19. Who is the current Commissioner of Agriculture in North Carolina?

ANS: Steve Troxler

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

ANS: Stillbirth or Stillborn

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. *Mycobacterium paratuberculosis* is the name of the organism responsible for which of the following diseases?

- | | |
|---------------------------|----------------------------------|
| a) Johne's disease | b) Foot and Mouth disease |
| c) Mad cow disease | d) Bang's disease |

ANS: a) Johne's disease

2. Which of the following terms best describes a quarter of the udder that permanently does not secrete milk?

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|--------------------|------------------|-----------------|-----------------|
| a) mastitis | b) closed | c) blind | d) empty |
|--------------------|------------------|-----------------|-----------------|

ANS: c) blind

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

ANS: 100 pounds