

**2013 Junior Dairy Quiz Bowl Questions**

**Round 07**

**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 of the following is the name of the organization that is charged with evaluating genetic traits of dairy cattle?**

- a) Animal Improvement Programs Laboratory (AIPL)**
- b) Dairy Business Association (DBA)**      **c) Dairy Herd Improvement Association (DHIA)**
- d) World Dairy Expo (WDE)**

ANS: a) Animal Improvement Programs Laboratory (AIPL)

**2. 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

**3. Where is more than half of the Grade A milk sold to consumers in the United States?**

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

ANS: b) supermarkets (grocery) stores

**4. What is a fat source called that is either chemically treated or physically encapsulated so that it is not degraded in the rumen, but is still available for digestion in the small intestine?**

ANS: Rumen-protected or rumen-inert

**5. Usually, what is the average duration of standing heat in a dairy cow?**

- a) 6-12 hours**      **b) 12-18 hours**
- c) 18-24 hours**      **d) 24-36 hours**

ANS: b) 12-18 hours

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 determined by multiplying the nitrogen content of a feed by 6.25?

ANS: crude protein

2. As milk yield declines with advancing lactation, milk fat test normally:

a) increases                      b) decreases                      c) remains constant

ANS: a) increases

3. What is the name of the blister-like structure on the ovary that contains the egg before ovulation?

ANS: follicle

4. In reference to veterinarians, what do the letters AABP stand for?

ANS: American Association of Bovine Practitioners

5. Currently, what is the maximum somatic cell count (cells/ml) allowed in Grade A milk sold in the U.S.?

ANS: 750,000 (cells/ml)

6. Colostrum contains:

- a) more protein than whole milk
- b) less protein than whole milk
- c) the same amount of protein as whole milk

ANS: a) more protein than whole milk

**7. In what dairy feed would you expect to find dried whey?**

ANS: milk replacer

**8. Most of the dairy cows in North Carolina are found in:**

**a) the Mountains                      b) the Piedmont                      c) the Coastal Plains**

ANS: b) the Piedmont

**9. Cream is very high in which one of the following:**

**a) protein      b) whey      c) fat      d) lactose**

ANS: c) fat

**10. 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

**11. Write this down: The official placing on a class of cows is 4-3-2-1 with cuts of 3-4-5. Your placing is 3-4-1-2. Calculate your score.**

ANS: 47

**12. Should a close-up dry cow receive a cationic, anionic or neutral diet?**

ANS: an anionic diet

**13. Nutritionally, a low milk fat test is an indication of a deficiency of:**

**a) protein  
b) energy  
c) fiber**

ANS: c) fiber

**14. 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

**15. Class II milk is milk normally used for:**

- a) fluid milk**
- b) cottage cheese, ice cream and yogurt**
- c) hard cheese and butter**

ANS: b) cottage cheese, ice cream and yogurt

**16. 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

**17. Which of the following normally occurs first during a lactation cycle?**

- a) peak milk production**
- b) peak feed intake**
- c) both occur at the same time**

ANS: a) peak milk production

**18. What is the term for when a cow fails to show signs of heat?**

ANS: anestrus

**19. 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

**20. Your dairy cow is producing 100 pounds of milk per day that contains 4.0% fat. How many pounds of fat is she producing daily?**

ANS: 4.0 pounds

**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. How many 8 oz. glasses of milk does the average US dairy cow produce per day?**

- a) 50 glasses            b) 100 glasses            c) 150 glasses            d) 200 glasses**

ANS: b) 100 glasses

**2. XWhich vitamin is routinely added to milk?**

- a) vitamin K            b) vitamin D            c) vitamin E            vitamin C**

ANS: b) vitamin D

**3. In North Carolina, the highest conception rates would be expected in which month?**

- a) June            b) August            c) September            d) December**

ANS: d) December