

**2011 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. If you breed with sexed semen that contains predominantly x-bearing sperm cells what are you trying to get?**

ANS: You are trying to get heifer calves

**2. What is the one-word term that describes the regurgitation, cud chewing, and the re-swallowing of a feed bolus?**

ANS: Rumination

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

ANS: an anionic diet

**4. What is the process called when a cow's egg and a bull's sperm are joined?**

ANS: Fertilization

**5. What is the indigestible component of forages called?**

ANS: Lignin

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?

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

ANS: b) crude protein

2. In the reproductive tract of a dairy cow, how many uterine horns are there?

- a) one      b) two      c) three      d) four

ANS: b) two

3. Dairy cattle are most comfortable within which of the following temperature ranges?

- a) 30 to 35 degrees F      b) 70 to 75 degrees F      c) 50 to 55 degrees F

ANS: c) 50 to 55 degrees F

4. How many teeth does a mature dairy cow have?

ANS: 32

5. Which nutrient is made up of amino acids?

ANS: protein

6. When balancing rations, is silage considered roughage or concentrate?

ANS: Roughage

**7. Name the primary substance secreted when a cow chews that helps to maintain rumen pH?**

ANS: Saliva (also accept sodium bicarbonate or bicarb)

**8. If one sees, “3X” in a dairy animal’s production records, what does it stand for?**

ANS: Milked 3 times per day

**9. In what main category on the PCDA Dairy Cow Unified Score Card is the Rump listed?**

ANS: Frame

**10. What is another name for the corpus luteum (CL)?**

ANS: “Yellow body”

**11. What is the hair at the end of a cow’s tail called?**

ANS: Switch

**12. From what country did the Ayrshire breed originate?**

ANS: Scotland

**13. On a registration paper or breeding report what does ET stand for?**

ANS: Embryo transfer

**14. Teat dipping is used to prevent:**

**a. Metritis    b. Mastitis    c. Laminitis**

ANS: b. Mastitis

**15. What are anestrous cows?**

ANS: cows that don’t show heat

**16. Urea supplies NPN to cattle. What do the letters NPN stand for?**

ANS: Non-protein nitrogen

**17. What direction do you move when leading a dairy animal in the show ring?**

- a) clockwise                      b) counter-clockwise                      c) it does not matter

ANS: a) clockwise

**18. Which of the following food products is not made from milk?**

- a) cheese                                      b) ice cream  
c) yogurt                                      d) non-dairy creamer

ANS: d) non-dairy creamer

**19. As a growing plant gets older, what happens to its concentration of fiber?**

- a) it increases                                      b) it decreases                                      c) it remains the same

ANS: a) it increases

**20. Cream is very high in:**

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

ANS: c) fat

**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. What is the term that describes when the egg is released?**

ANS: Ovulation

**2. What is the name of the hormone that triggers the beginning of lactation and is essential for milk formation?**

ANS: Prolactin

**3. What is a calf with parents of two different breeds called?**

ANS: a crossbreed (or crossbred)