

**2010 Junior Dairy Quiz Bowl Questions**

**Round 06**

**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. How many amino acids are considered to be essential in the dairy cow and are required in the diet?**

ANS: 10

**2. 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

**3. 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

**4. Which of the following is NOT a sex limited trait?**

- a) milk production      b) udder      c) feet and legs**

ANS: c) feet and legs

**5. How long is the life cycle for a fly, from egg to adult?**

- a) 100 days  
b) 10 days  
c) 1 day**

ANS: b) 10 days

**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 term for a difficult or abnormal calving?**

- a) acetonemia      b) dystocia      c) ketosis      d) metritis**

ANS: b) dystocia

**2. As milk yield declines with advancing lactation, milk fat test will usually:**

- a) increase      b) decrease      c) remain constant**

ANS: a) increase

**3. What infection causes milk somatic cell counts to increase?**

ANS: Mastitis

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

ANS: Clean-in-place

**5. In reference to a sire summary, what does the abbreviation PTA stand for?**

ANS: predicted transmitting ability

**6. Which of the following would be the least desirable feed for the week-old calf?**

- a) a coarse grain mix      b) whole milk      c) corn silage**

ANS: c) corn silage

**7. Class II milk is milk 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

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

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

ANS: d) December

**9. At approximately what age does a calf begin to chew its cud?**

- a) 2-3 weeks**
- b) 6-8 weeks**
- c) 10-12 weeks**
- d) 12-15 weeks**

ANS: a) 2-3 weeks

**10. What is the name used for a diagram of a dairy animal's ancestors?**

- a) sire summary**
- b) pedigree**
- c) registration**

ANS: b) pedigree

**11. During nutrient metabolism, what is the term for a protein that acts as a catalyst in starting or speeding up certain chemical reactions?**

ANS: enzyme

**12. What is the term for the condition involving the ovaries when the cow comes into heat every few days?**

- a) lactation**
- b) cystic**
- c) anestrus**
- d) placenta**

ANS: b) cystic

**13. Protocols such as Ov-Synch, CIDR-PG, and 2-shot PG are used in cows primarily for what reason?**

- a) mastitis treatment**
- b) heat detection**
- c) estrus synchronization**

ANS: c) estrus synchronization

**14. Which of the following cannot be digested by the dairy cow?**

- a) cellulose                      b) hemicellulose                      c) lignin

ANS: c) lignin

**15. Which section of the reproductive tract does the A.I. inseminating rod pass through immediately before the semen is deposited?**

- a) uterine horn                      b) cervix                      c) rectum

ANS: b) cervix

**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. In reference to milk production records, what does “ME” stand for?**

ANS: Mature Equivalent

**18. What is the name of the hormone that causes milk “let down”?**

ANS: oxytocin

**19. What is the term used in dairy cattle judging when a cow is close at the hocks?**

- a) single-hocked                      b) sickle-hocked                      c) cow-hocked                      d) post-legged

ANS: c) cow-hocked

**20. Rumensin and bovatec increase feed efficiency and body weight gain in heifers. These products are also called:**

- a) ionophores                      b) antibodies                      c) energy supplements

ANS: a) ionophores

**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 name of the enzyme that is added to milk to make cheese?**

ANS: Rennet

**2. The calf develops in what part of a pregnant cow?**

**a) uterus      b) cervix      c) ovary**

ANS: a) uterus

**3. Dry matter intake by lactating Holstein cows generally averages:**

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

ANS: b) 45 to 50 lbs.