

**2009 Junior Dairy Quiz Bowl Questions**

**Round 01**

**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. What is the name of the substance in a semen tank that is used to freeze semen straws?**

- a) liquid nitrogen    b) liquid oxygen    c) liquid hydrogen    d) liquid carbon dioxide**

ANS: a) liquid nitrogen

**2. What is the term for the "release of an egg from a follicle"?**

- a) palpation            b) ovulation            c) parturition**

ANS: b) ovulation

**3. What is the name of the test, developed at the University of Wisconsin, that is used to measure the milk fat (butterfat) content in milk?**

ANS: Babcock test

**4. When you set up a lactating cow in the show ring, the rear leg nearest the judge should be placed:**

- a) farther back than the other leg                      b) farther forward than the other leg  
c) the same as the other leg                              c) it does not matter how the rear legs are placed**

ANS: b) farther forward than the other leg

**5. What is located between the dew claw and the hoof on a dairy animal?**

- a) stifle                      b) dewlap                      c) pastern                      d) thurl**

ANS: c) pastern

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 name of the sugar made from glucose and galactose that is found in milk?

ANS: lactose

2. What part of the cow does laminitis effect?

ANS: Hooves (or feet)

3. What is the name of the toxic yellow pigment that can be found in cottonseed?

ANS: gossypol

4. Why is Deccox (decoquinate) often included in calf starter feed?

a) as a source of calcium    b) to control flies    c) to control coccidiosis

ANS: c) to control coccidiosis

5. What term describes a dairy heifer that is too fat?

ANS: overconditioned

6. If the milk to rest pulsation ratio is set at 55:45 on a milking machine, what percent of the time is the inflation open?

ANS: 55%

7. How many points are allotted for body capacity on the PDCA Dairy Cow Unified Score Card?

ANS: 10 points

**8. What ligament divides the udder into a right and left side and provides the main support for the udder?**

ANS: median suspensory ligament

**9. What does the Standard Plate Count (SPC) measure in milk?**

a) leukocyte count   b) fat test   c) protein   d) bacteria count

ANS: d) bacteria count

**10. What is the term for "the stopping of feeding milk" to a calf?**

ANS: weaning

**11. The main reason that soybean meal is added to calf starters is to provide:**

a) fiber   b) protein   c) energy   d) minerals

ANS: b) protein

**12. What process that is used extensively in milk processing to destroy bacteria was developed by Dr. Louis Pasteur?**

ANS: Pasteurization

**13. What hormone is required for the maintenance of pregnancy in a dairy cow?**

ANS: progesterone

**14. What are the small projections that line the wall of the small intestine and absorb nutrients?**

ANS: villi

**15. What byproduct is recovered when cheese is made?**

ANS: whey

**16. What do the initials U.S.D.A stand for?**

ANS: United States Department of Agriculture

**17. Grade A Milk that is used for fluid consumption is classified into what class?**

- a) Class 1    b) Class 2    c) Class 3    d) Class 4

ANS: a) Class 1

**18. Which one of the following is the percentage of water contained in normal milk?**

- a) 97.5%    b) 87.5%    c) 77.5%    d) 67.5%

ANS: b) 87.5%

**19. What is the primary protein found in milk?**

- a) lipase    b) lysine    c) lactose    d) casein

ANS: d) casein

**20. What are you trying to estimate when you measure the heart girth of a dairy heifer with a special tape?**

ANS: body weight

**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 waxy substance found in the teat duct (streak canal)?**

ANS: keratin

**2. What is the average gestation period (in days) for a dairy cow?**

**a) 180 days                  b) 280 days                  c) 305 days                  d) 365 days**

ANS: b) 280 days (also accept 275 to 285 days)

**3. 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