

**2016 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. In young ruminants, what is the name of the anatomical structure that sends milk from the esophagus to the abomasum?**

ANS: Esophageal groove

**2. If you have mainly x-bearing sperm cell in a semen fraction, what sex of calf are you trying to get?**

ANS: you are trying to get a female (heifer) calf

**3. Write this down. How many pounds of protein are in one ton (2000 pounds) of dairy feed that contains 18% protein?**

- a) 200 pounds      b) 360 pounds      c) 18 pounds      d) 218 pounds**

ANS: b) 360 pounds

**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. 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)

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. It takes approximately how many pounds of milk to make one (1) pound of cheese:

ANS: 10 pounds of milk

2. Which class of milk describes that used for drinking (fluid milk)?

ANS: Class I

3. Which compartment of the ruminant stomach functions to trap foreign objects such as wire or nails that may be eaten?

ANS: reticulum

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

ANS: Clean-in-place

5. What breed of dairy cow originated in Scotland?

ANS: Ayrshire

6. What type of bond joins amino acids together to form protein?

a) peptide bond      b) glycogen bond      c) epoxy bond

ANS: a) peptide bond

7. What is the source of mycotoxins in feed?

- a) bacteria                      b) molds                      c) carbohydrates

ANS: b) molds

8. Holstein calves should first be fed one gallon of colostrum:

- a) at 3 days of age    b) as soon as possible after birth    c) by one week of age

ANS: b) as soon as possible after birth

9. Parallel, rotary and herringbone are types of:

ANS: Milking Parlors

10. What section of North Carolina has the largest number of dairy cows?

- a) Coastal Plain            b) Piedmont                      c) Mountains

ANS: b) Piedmont

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 approximate percentage of solids in normal milk?

- a) 5%                      b) 13%                      c) 20%                      d) 25%

ANS: b) 13%

13. An animal that is deficient in this vitamin has blindness, is weak and has reproductive problems.

ANS: Vitamin A

14. Which one of the following, when fed in excess, can cause overconditioned (fat) heifers?

- a) protein                      b) fiber                      c) energy                      d) calcium

ANS: c) energy

**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. Which of the following causes ringworm on dairy cattle?**

- a) fungus                      b) virus                      c) bacteria

ANS: a) fungus

**18. How many cups of milk does USDA's MyPyramid recommend consuming every day?**

- a) 2-3 cups                      b) 5-6 cups                      c) 8-9 cups

ANS: a) 2-3 cups

**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. Your veterinarian says that a cow is in the first trimester. What does that mean?**

ANS: first 3 months of pregnancy

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

ANS: American Association of Bovine Practitioners

**2. In dairy cattle judging, what are you referring to when you describe this part as having a higher and wider attachment?**

**a) fore udder              b) rear udder              c) tail head              d) brisket**

ANS: b) rear udder

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

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

ANS: a) uterus