

**2007 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. Which one of the following is the largest dairy milk marketing cooperative in the U.S.?**

- a) Maryland and Virginia Milk Producers
- b) Land O' Lakes
- c) Dairy Farmers of America (DFA)
- d) California Dairies

ANS: c) Dairy Farmers of America (DFA)

**2. Lactose is the name of the sugar that is found only in milk. Which of the following combine to form lactose?**

- a) glucose and fructose
- b) glucose and galactose
- c) glucose and sucrose
- d) glucose and aspartame

ANS: b) glucose and galactose

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

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

ANS: a) farther forward than the other leg

**4. Which of the following are often included in rations as good sources of rumen undegradable or "bypass" protein?**

- a) cottonseed hulls and molasses
- b) alfalfa hay and corn silage
- c) corn gluten meal and blood meal

ANS: c) corn gluten meal and blood meal

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

- a) liquid oxygen
- b) liquid carbon dioxide
- c) liquid helium
- d) liquid nitrogen

ANS: d) liquid nitrogen

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. Which of the following is defined as an infection of the uterus?

- a) rumenitis                      b) mastitis                      c) metritis

ANS: c) metritis

2. On the PDCA Dairy Cow Unified Score Card, how many points are assigned to the “Feet and Legs” category?

- a) 10                      b) 15                      c) 20                      d) 40

ANS: a) 15

3. You notice that the milk somatic cell counts are increasing in your herd. What disease problem does this indicate?

- a) acidosis                      b) metritis                      c) mastitis

ANS: c) mastitis

4. Which of the following is the weight of one gallon of whole milk?

- a) 8.6 pounds                      b) 9.6 pounds                      c) 10.6 pounds                      d) 11.6 pounds

ANS: a) 8.6 pounds

5. Which of the following is often used as a source of calcium in dairy cattle rations?

- a) monensin                      b) Vitamin C                      c) sodium selenite                      d) calcitic limestone

ANS: d) calcitic limestone

**6. Which of the following describes “the process of flushing fertilized eggs from donor cows and implanting them in recipient cows”?**

- a) gestation   b) artificial insemination   c) embryo transfer   d) ultrasound imaging

ANS: c) embryo transfer

**7. What position does Mike Johanns hold in our Federal government?**

ANS: current U.S. Secretary of Agriculture

**8. Which of the following is the amount of checkoff money that dairy producers pay for each cull dairy cow that is sent to market?**

- a) nothing   b) 15 cents   c) 50 cents   d) one dollar

ANS: d) one dollar

**9. Which one of the following describes a zoonotic disease (or zoonoses)?**

- a) a disease that is transmitted between vertebrate animals and humans  
b) a disease found only in zoos   c) an incurable disease   d) a subclinical disease

ANS: a) a disease that is transmitted between vertebrate animals and humans

**10. In a 4-H dairy cattle judging contest, how many minutes are allowed for you to present a set of oral reasons?**

- a) 2 minutes   b) 3 minutes   c) 4 minutes

ANS: a) 2 minutes

**11. Which one of the following is found in the greatest amount in cottonseed meal?**

- a) starch   b) protein   c) fat   d) fiber

ANS: b) protein

**12. In the process of artificial insemination (A.I.) on a dairy cow, what section of the reproductive tract does the inseminating rod pass through before the semen is deposited?**

- a) cervix   b) fallopian tubes   c) oviduct   d) uterine body

ANS: a) cervix

**13. Ionophores are feed additives that have been shown to increase feed efficiency and body weight gain in heifers. Which of the following are classified as ionophores?**

- a) Rumensin and Bovatec    b) sodium bicarbonate and magnesium oxide  
c) selenium and biotin

ANS: a) Rumensin and Bovatec

**14. Which of the following is the name of the blister-like structure on the ovary that contains the egg before ovulation?**

- a) follicle    b) cervix    c) uterus

ANS: a) follicle

**15. What does PTA stand for in a sire summary?**

ANS: Predicted Transmitting Ability

**16. Which of the following feeds is a by-product of an ethanol fuel production facility?**

- a) alfalfa    b) fescue    c) distillers grains    d) clover

ANS: c) distillers grains

**17. Which one of the following is present in colostrum that provides the newborn calf with passive immunity?**

- a) lactose    b) immunoglobulin or antibodies    c) carbohydrate    d) fat

ANS: b) immunoglobulin or antibodies

**18. What is the definition of compensatory growth (or compensatory gain) in dairy heifers?**

ANS: a period of increased growth rate in heifers that follows a growth restriction earlier in the heifer's life

**19. The DRMS is located in Raleigh. What does DRMS stand for?**

ANS: Dairy Records Management Systems

**20. In North Carolina, which one of the following is a weather-related management issue that has a great effect on milk production, especially during the summer?**

- a) scours                      b) acidosis                      c) rainfall                      d) heat stress

ANS: d) heat stress

**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 the national dairy industry, what does ADSA stand for?**

ANS: American Dairy Science Association

**2. What disease are we trying to prevent by dipping the teats in a special solution following milking?**

ANS: mastitis

**3. True/False**

**Rumensin (Monensin) is now approved to be fed to milking cows.**

ANS: True