

**2011 Junior Dairy Quiz Bowl Questions**

**Round 04**

**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. Dairy farmers calculate IOFC to help evaluate their profitability. What does the abbreviation IOFC stand for?**

ANS: Income over feed cost(s)

**2. What is the technical term for a difficult birth?**

ANS: Dystocia

**3. What is the technical term for the class of chemicals used to kill internal parasites in cattle?**

ANS: Anthelmintics (also accept dewormers)

**4. When a sperm cell with an X chromosome fertilizes an egg, the result will be a:**

**a. Male      b. Female      c. either male or female**

ANS: b. Female

**5. In reference to dairy cattle reproduction, what is a follicle?**

**a) an embryo      b) the corpus luteum      c) a zygote  
d) the blister-like structure on the ovary that contains the egg before ovulation**

ANS: d) the blister-like structure on the ovary that contains the egg before ovulation

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. Cellulose, hemicellulose and lignin are the components of:

- a) crude protein
- b) acid detergent fiber (ADF)
- c) rumen-undegradable protein (RUP)
- d) neutral detergent fiber (NDF)

ANS: d) neutral detergent fiber (NDF)

2. How many pounds does a bushel of shelled corn weigh?

- a) 26 lb
- b) 56 lb
- c) 42 lb
- d) 65 lb

ANS: c) 56 lbs

3. If a corn silage sample contains 68% moisture, what percentage dry matter is it?

ANS: 32% dry matter

4. When artificially inseminating cows the semen should be deposited in the \_\_\_\_\_?

- a. cervix
- b. vagina
- c. uterine body
- d. fallopian tubes

ANS: c. uterine body

5. How many upper incisors does a cow have?

- a. Two
- b. Four
- c. None

ANS: c. None

6. At what stage of lactation can body condition be most efficiently restored in dairy cows?

- a. during the dry period      b. in early lactation      c. in late lactation

ANS: c. in late lactation

7. On a DHIA record, what does the term 305 ME stand for:

- a. 305-day mature equivalent  
b. 305-day milk equivalent  
c. 305-pound milk efficiency

ANS: a. 305-day mature equivalent

8. Where is the National Dairy Shrine Museum located?

- a) Madison, Wisconsin      b) Louisville, Kentucky  
c) Fort Atkinson, Wisconsin      d) Harrisburg, Pennsylvania

ANS: c) Fort Atkinson, Wisconsin

9. What is the approximate gestation length for a dairy cow?

- a) 280 days      b) 305 days  
c) 150 days      d) 21 days

ANS: a) 280 days

10. What is the name that veterinarians call an infected uterus in a dairy cow?

- a. Mastitis      b. Metritis      c. Parturition

ANS: b. Metritis

11. What term describes the average number of days between the latest two calving dates for all cows in the herd?

- a) Calving interval      b) Days open      c) Dry period

ANS: a) Calving interval

**12. In a late lactation dairy cow, what happens to her body weight when she enters a positive energy balance phase?**

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

ANS: a) it increases

**13. How many points are allotted for “Udder” on the PDCA Dairy Cow Unified Score Card?**

ANS: 40 points

**14. What does the Standard Plate Count measure in milk?**

- a) somatic cell count            b) bacteria count            c) virus count

ANS: b) bacteria count

**15. Which of the following is a warm season or C4 grass?**

- a) fescue            b) bermuda            c) alfalfa            d) orchardgrass

ANS: b) bermuda

**16. What is the minimum amount of silage that should be removed from the exposed surface of a trench silo each day to prevent spoilage?**

- a) 6 inches            b) 12 inches            c) 24 inches            d) 36 inches

ANS: a) 6 inches

**17. Which of the following feeds contains the most protein?**

- a) corn gluten feed            b) corn gluten meal            c) corn grain

ANS: b) corn gluten meal

**18. Which breed’s milk generally has the highest level of beta-carotene which gives the milk a golden color?**

- a. Holstein    b. Jersey    c. Brown Swiss    d. Guernsey

ANS: d. Guernsey

**19. Using a scale 1 to 5, what should a dry cow's body condition score be?**

- a) 1.5 to 2.0                      b) 2.5 to 3.0                      c) 3.5 to 4.0

ANS: c) 3.5 to 4.0

**20. The two leading causes of death in young dairy calves are pneumonia and \_\_\_\_\_?**

ANS: Scours (also accept diarrhea)

**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. A young calf needs energy to maintain body functions under normal conditions, which ranges from 50 degrees F to 78 degrees F. What is this temperature range referred to as?**

- a) comfort range                      b) heat index                      c) thermal-neutral zone

ANS: c) thermal-neutral zone

**2. Which breed has its major All-American Show in Louisville, Kentucky?**

- a) Ayrshire                      b) Guernsey                      c) Jersey                      d) Brown Swiss

ANS: c) Jersey

**3. Lag time or the time from stripping teats to putting on the units is the most important part of the milking routine. The goal is to get the teat cups on the cow in how many minutes after stripping?**

- a) 1 to 1 ½ minutes                      b) 3 to 4 minutes                      c) 5 to 6 minutes

ANS: a) 1 to 1 ½ minutes