

**2012 Junior Dairy Quiz Bowl Questions**

**Round 03**

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

**a) 1                  b) 5                  c) 10                  d) 15**

**c) 10**

**2. How many kilocalories are contained in one gram of fat?**

**a) 3                  b) 6                  c) 9                  d) 12**

**ANS: c) 9**

**3. Are warts caused by a bacteria, fungus, or virus?**

**ANS: virus**

**4. When cows are grazing lush pasture, a deficiency of this mineral in the diet leads to grass tetany or grass staggers?**

**a) manganese                  b) calcium                  c) copper                  d) magnesium**

**ANS: d) magnesium**

**5. What does the term "dystocia" refer to?**

**a) milk fever                  b) ketosis                  c) a difficult or abnormal calving**

**ANS: c) a difficult or abnormal calving**

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 vitamin prevents “rickets”?

ANS: Vitamin D

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

ANS: Anthelmintics (also accept dewormers or wormers)

3. What is the process of heating milk to destroy pathogenic bacteria called?

ANS: pasteurization

4. 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

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

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

ANS: reticulum

7. Which one of the following is the name of the feed additive commonly added to dairy rations that buffers the rumen and helps maintain milk fat test?

- a) biotin      b) dried molasses      c) ionophores      d) sodium bicarbonate

ANS: d) sodium bicarbonate

8. Which one of the following is a water-soluble vitamin?

- a) Vitamin K      b) Vitamin A      c) Vitamin E      d) Vitamin B<sub>3</sub>

ANS: d) Vitamin B<sub>3</sub>

9. On the back of a cow, name the part of the cow's topline that is located between the withers and the loin.

ANS: chine

10. In reference to milk production records, what does "ME" stand for?

ANS: Mature Equivalent

11. Which of the following compartments of the cow's stomach is where the majority of the feed fiber is digested by microorganisms?

- a) abomasum      b) omasum      c) rumen      d) colon

ANS: c) rumen

12. What term refers to the act of giving birth?

ANS: parturition

13. Dairy calves typically are weaned at what age?

- a) 2-4 weeks      b) 6-8 weeks      c) 18-20 weeks

ANS: b) 6-8 weeks

14. The National Dairy Shrine Museum is located in which of the following locations?

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

ANS: d) Fort Atkinson, Wisconsin

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

ANS: oxytocin

**16. The recommended maximum level of fat in a lactating cow’s diet is about?**

- a) 2-3%      b) 3-4%      c) 5-7%      d) 10-12%.

ANS: c) 5-7%

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

ANS: 40 points

**18. Milk should be cooled to which of the following temperatures within 30 minutes after milking is completed?**

- a) 60 ° F      b) 38° F      c) 20° F      d) 15 ° F

ANS: b) 38° F

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

- a) first 3 months of pregnancy      b) first 3 months of lactation  
c) first part of the dry period

ANS: a) first 3 months of pregnancy

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

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

ANS: c) 56 lbs

**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. Write this down: A dairy cow is producing 100 pounds of milk per day that contains 4.0% fat. How many pounds of fat is she producing daily?**

ANS: 4.0 pounds

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

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

ANS: a) uterus

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

ANS: predicted transmitting ability