

2006 Senior Dairy Quiz Bowl Questions

Round 02

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. Beef producers pay a one dollar per head checkoff for each beef animal sold at market. How much do 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

2. What does  $NE_L$  stand for?

ANS: Net energy for lactation

3. Why would you feed the additive Poloxalene to cows that are grazing alfalfa or clover?

ANS: To prevent bloat

4. What is the term used to describe the physical characteristics and performance of an individual?

ANS: Phenotype

5. What is the name of the hormone that is released from the anterior pituitary gland and stimulates follicular growth?

ANS: FSH or follicle stimulating hormone

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 compartment of the ruminant stomach functions to squeeze fluid out of the digesta and is also known as “manypplies”:

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

ANS: c) omasum

2. SPC is a measure of bacteria counts in milk. What do the letters SPC stand for?

- a) Standard Plate Count      b) Somatic Pasteurization Count  
c) Secondary Preliminary Count      d) Super Plate Count

ANS: a) Standard Plate Count

3. Which of the following is the temperature (in degrees F) of liquid nitrogen?

- a) - 120 degrees F      b) - 220 degrees F      c) -320 degrees F      d) - 420 degrees F

ANS: c) -320 degrees F

4. In reference to animal agriculture, what does CAFO stand for?

ANS: Concentrated Animal Feeding Operations

5. Which one of the following describes the “gross energy” in a feed?

- a)  $NE_L$       b) heat increment  
c) the total amount of energy that a feed contains that is determined by bomb calorimetry

ANS: c) the total amount of energy that a feed contains that is determined by bomb calorimetry

**6. Which of the following is the most costly disease in dairy cattle:**

- a) foot rot    b) acidosis    c) mastitis    d) metritis

ANS: c) mastitis

**7. Who is the current U.S. Secretary of Agriculture?**

ANS: Mike Johanns

**8. The CWT program is a national dairy farmer-funded program that is used to help stabilize milk prices. In reference to this program, what does CWT stand for?**

ANS: Cooperatives Working Together

**9. Which one of the following is the name for the milk that is remaining in the udder following the completion of milking?**

- a) foremilk    b) residual milk    c) skim milk

ANS: b) residual milk

**10. Which mineral is associated with the prevention of goiter?**

ANS: Iodine

**11. Which B vitamin has been shown to improve hoof health as well as milk production?**

- a) lysine    b) biotin    c) zinc    d) methionine

ANS: b) biotin

**12. On a milking system, what prevents the vacuum from going too high?**

ANS: Vacuum regulator or controller (accept regulator or controller)

**13. When a herd develops a low milk fat test, the cause is often a deficiency of:**

- a) protein    b) energy    c) effective fiber    d) selenium

ANS: c) effective fiber

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

- a) corpuscle    b) zygote    c) chromosome    d) follicle

ANS: d) follicle

**15. What is the name of the chemical compound, found in cottonseed meal or whole cottonseed, that has been found to be toxic to dairy cattle when fed in excess?**

- a) calcium carbonate    b) gossypol    c) ascorbic acid

ANS: b) gossypol

**16. In a high producing dairy cow, what normally happens to body weight in early lactation?**

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

ANS: b) it decreases

**17. Which one of the following is a zygote?**

- a) a breed of dairy goat    b) a fertilized egg    c) an amino acid    d) a fat-soluble vitamin

ANS: b) a fertilized egg

**18. The official placing on a class of cows is 3-4-2-1 with cuts of 3-4-6. Your placing is 3-4-1-2. What is your score?**

ANS: 44

**19. Which disease does the milk "ring test" conducted on milk samples screen for?**

ANS: Brucellosis (also known as Bangs disease)

**20. In the reproductive system of a dairy cow, what is the common name for the term "corpus luteum"?**

ANS: yellow body

**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. On a milking machine, if the milk to rest pulsation ratio is set at 60:40, what percent of the time is the inflation open?

ANS: 60%

2. Five hundred (500) pounds of whole milk should yield about how many pounds of cheese?

ANS: 50

3. On a Holstein pedigree, what do the letters BLAD stand for?

ANS: Bovine Leukocyte Adhesion Deficiency