

**2016 Senior Dairy Quiz Bowl Questions**

**Round 05**

**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 types of flies are responsible for grubs or warbles in cattle?**

- a) house fly                  b) heel fly                  c) dragon fly                  d) horse fly**

ANS: b) heel fly

**2. When a feed analysis is conducted to determine the nutrient content, what chemical element is measured to determine the amount of crude protein?**

ANS: nitrogen

**3. What is the more common name for the infectious condition of the feet known as pododermatitis?**

ANS: foot rot

**4. Which cattle disease destroys the intestinal lining with its major symptom being diarrhea and weight loss?**

- a) Johnes                  b)metritis                  c) conjunctivitis                  d) tuberculosis**

ANS: a) Johnes

**5. What body system does bovine spongiform encephalopathy (BSE) affect?**

- a) reproductive system                  b) digestive system                  c) central nervous system**

ANS: central nervous system

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 one of the following dairy breeds normally has the least amount of calving difficulty?

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

ANS: d) Jersey

2. What is the name of the foundation that provides the majority of the funding support for the North Carolina Dairy Youth Program?

ANS: North Carolina Dairy Youth Foundation

3. A cow has produced five bull calves in the past five years. She is about to deliver her sixth calf. What is the probability that it will also be a bull calf?

- a) 25%      b) 5%      c) 50%      d) 6%

ANS: c) 50 %

4. What causes warts?

- a) fungus      b) bacteria      c) a virus

ANS: c) a virus

5. What group of hormones, produced in the uterus, causes regression of the corpus luteum, and contractions of the uterus?

ANS: Prostaglandins

**6. What is the number of amino acids that are considered to be essential in the dairy cow, and therefore are required in the diet?**

ANS: 10

**7. Which one of the following is released into the bloodstream when a dairy cow is frightened?**

**a) oxytocin                      b) formalin                      c) FSH                      d) adrenaline**

ANS: d) adrenaline

**8. During the digestive process, what enzyme functions to break down fat (or lipids)?**

**a) cellulase                      b) lactase                      c) lipase                      d) pepsin**

ANS: c) lipase

**9. Which of the following is the primary reason that colostrum from older cows is normally higher in antibodies?**

**a) older cows produce more milk    b) older cows have given birth to more calves  
c) older cows have had more exposure to disease and more development of antibodies**

ANS: c) older cows have had more exposure to disease and more development of antibodies

**10. What term describes mating two purebred animals of different breeds?**

ANS: crossbreeding

**11. In the reproductive system of a cow what produces estrogen?**

ANS: ovary (follicle)

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

ANS: pasteurization

**13. What is the name of the toxic pigment that can be found in whole cottonseed?**

ANS: gossypol

**14. What is the term for when an egg from a cow and spermatozoa from a bull are joined?**

ANS: fertilization

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

ANS: Phenotype

**16. What is the name of the large blood vein visible in the neck of the cow that the veterinarian can use to draw blood from or put in fluid?**

ANS: Jugular vein

**17. What part of the milking system causes the alternating vacuum pressure between the teat cup shell and liner?**

a) vacuum regulator      b) distributor      c) pulsator      d) compressor

ANS: c) pulsator

**18. Which stomach compartment comprises about 25 percent of a young calf's stomach and constitutes about 80 percent in the mature cow?**

ANS: Rumen

**19. An inflammation of the lining of the uterus is called:**

a) cystitis      b) endometritis      c) laminitis      d) peritonitis

ANS: b) endometritis

**20. The total amount of energy that a feed contains can be determined in the laboratory using a "bomb calorimeter". What is the term for this total amount of energy?**

ANS: Gross Energy

**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. Which of the following is the protein hormone that is associated with ovulation?**

- a) cortisol                      b) adrenaline                      c) somatotropin                      d) LH

ANS: d) LH

**2. What is the proper name of the ligament that causes the cleft between the halves of the udder?**

- a) lateral suspensory ligament                      b) median suspensory ligament                      c) thurl ligament

ANS: b) median suspensory ligament

**3. When raising dairy heifers, which of the following stages of growth is the most costly period?**

- a)      100 to 200 pounds                      c) 700 to 800 pounds  
b)      300 to 400 pounds                      d) 1,200 to 1,300 pounds

ANS: a) 100 to 200 pounds