

2011 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. Write this down. A cow is eating 50 pounds of dry matter each day. This dry matter contains 16% crude protein. How many pounds of crude protein is the cow consuming each day?

ANS: 8.0 pounds of crude protein

Calculation: 50 pounds of dry matter x 0.16 = 8.0 pounds of crude protein

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. During which of the following age ranges are dairy calves usually weaned?

- a) 2 to 3 weeks b) 18 to 20 weeks c) 6 to 8 weeks d) 10 to 12 weeks

ANS: c) 6 to 8 weeks

2. What is the name of the B vitamin that, in addition to increasing milk production, has a positive effect on the hoof?

- a) Choline b) Biotin c) Riboflavin d) Thiamine

ANS: b) Biotin

3. Which of the following groups has the highest fertility in a dairy breeding program?

- a) breeding age heifers b) 2nd lactation cows c) aged cows

ANS: a) breeding age heifers

4. What causes warts?

- a) fungus b) bacteria c) a virus

ANS: c) a virus

5. Which of the following does mold require to grow?

- a) carbon dioxide b) methane c) oxygen d) hydrogen

ANS: c) oxygen

6. During heat stress, which one of the following times is closest to when a typical cow's internal body temperature peaks?

- a) 11:30 a.m. b) 11:30 p.m. c) 7:30 p.m. d) 7:30 a.m

ANS: b) 11:30 p.m.

7. Which one of the following organisms is responsible for a contagious form of mastitis?

- a) *Streptococcus uberis* b) *Staphylococcus aureus* c) *Klebsiella pneumoniae*
d) *Escherichia coli*

ANS: b) *Staphylococcus aureus*

8. What does CLA stand for in reference to milk composition?

ANS: Conjugated Linoleic Acid

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

- a) 66 lb b) 56 lb c) 46 lb d) 26 lb

ANS: b) 56 lbs

10. Which of the following is the term for an abnormal or difficult calving?

- a) acetonemia b) metritis c) ketosis d) dystocia

ANS: d) dystocia

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

ANS: ovary (follicle)

12. Which one of the following describes the term "reliability" in reference to dairy cattle genetics?

- a) the accuracy of a genetic valuation
b) the marketability of a genetic valuation
c) the predictability of a genetic valuation

ANS: a) the accuracy of a genetic valuation

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. The blister-like structure on the ovary that contains the egg before ovulation is called the:

a) cervix b) corpuscle c) zygote d) follicle

ANS: d) follicle

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. What is the precursor for Vitamin A?

ANS: Beta-carotene (also accept carotene)

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. The Bt gene has been inserted into corn through a process called transgenics. From what does the gene protect the corn plant?

ANS: European corn borer

2. Which nutrients are classified as either water soluble or fat soluble?

ANS: vitamins

3. During which season of the year is Vitamin D needed from the diet in the greatest amounts by humans?

ANS: Winter