

2008 Junior Dairy Quiz Bowl Questions

Round 01

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. In the ruminant digestive system, which one of the following is the name of the first section of the small intestine that is connected to the abomasum?

- a) duodenum b) jejunum c) ileum d) colon

ANS: a) duodenum

2. True or False

An embryo with two X chromosomes will result in a male (bull) calf.

ANS: False

3. Which of the following is the term for a large and complex protein material that is capable of causing disease and that reproduces only inside a host cell?

- a) bacteria b) protozoa c) virus d) salmonella

ANS: c) virus

4. Dairy cattle are most comfortable within which of the following temperature ranges?

- a) 30 to 35 degrees F b) 50 to 55 degrees F c) 70 to 75 degrees F

ANS: b) 50 to 55 degrees F

5. Which of the following describes "the release of an egg from a follicle"?

- a) parturition b) palpation c) ovulation

ANS: c) 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. On a feed ration report, you see the letters ppm. What does ppm stand for?

ANS: parts per million

2. Which of the following is the name of the instrument that uses the concept of specific gravity to measure the quality of the colostrum before feeding?

a) pH meter b) moisture tester c) volt meter d) colostrometer

ANS: d) colostrometer

3. Carotene is a substance that is orange in color. Which vitamin is carotene the precursor for?

ANS: Vitamin A

4. Which one of the following is an example of a mineral found in dairy cattle diets:

a) biotin b) niacin c) calcium d) nitrogen

ANS: c) calcium

5. Which of the following is the main reason that the feed additive Decco (decoquinat) is often included in calf starter feed?

a) to control coccidia b) as a source of calcium c) to control flies

ANS: a) to control coccidia

6. Which one of the following happens to the calf's energy requirement during cold weather:

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

ANS: a) it increases

7. What position does Mike Johanns hold in our Federal government?

ANS: current U.S. Secretary of Agriculture

8. What is the name of the heating process used to kill bacteria in milk?

ANS: Pasteurization

9. On a DHIA report, which of the following is the definition of the category "days open"?

- a) the number of days from calving to conception b) the number of days dry
c) the number of days the cow is in the high production group
d) the number of days of lactation**

ANS: a) the number of days from calving to conception

10. Which one of the following would be a good choice to provide additional fiber in a dairy ration?

- a) corn grain b) barley grain c) soybean meal d) cottonseed hulls**

ANS: d) cottonseed hulls

11. What is the name of the byproduct recovered when cheese is made?

ANS: Whey

12. Of the following, which is the most important reason that we need to limit the time that a cow spends crowded in the holding area or pen on her way into the milking parlor?

- a) to reduce heat stress b) to reduce foot rot c) to reduce metritis**

ANS: a) to reduce heat stress

13. Which one of the following is another name for a calf's mother?

- a) sire b) offspring c) dam d) progeny**

ANS: c) dam

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

- a) follicle b) cervix c) uterus

ANS: a) follicle

15. Which hormone is required for the maintenance of pregnancy in a dairy cow?

ANS: Progesterone

16. In reference to the neonatal calf, what is meant by the term "weaning"?

ANS: the act of stopping the feeding of milk

17. Which one of the following terms is often used to indicate the energy value of a feedstuff?

- a) RUP b) RDP c) CP d) TDN or NE_L

ANS: d) TDN or NE_L

18. Many dairy farmers enroll their herds in the DHI milk testing and record-keeping program. What does DHI stand for:

ANS: Dairy Herd Improvement

19. Which of the following is the average gestation period (in days) for a dairy cow?

- a) 180 days b) 280 days c) 305 days d) 365 days

ANS: b) 280 days (accept 275 to 285 days)

20. In which compartment of the ruminant stomach is fermentation the primary digestive process?

ANS: rumen (or reticulo-rumen)

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. Compute your score using a 50 point maximum. The official placing is 2-1--3-4 with cuts of 2-5-5. Your placing is 2-1-4-3. What is your score?

ANS: 45

2. What is the name of the waxy substance that is found in the teat duct (streak canal)?

ANS: Keratin

3. Why do dairy farmers often place a KAMAR detector on the rump of their cows?

ANS: To help detect heat or estrus