

2015 Senior Dairy Quiz Bowl Questions

Round 06

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 is the typical dimension for a free stall for Holstein cows?

- a) 6 feet long and 3 feet wide b) 7 feet long and 4 feet wide c) 9 feet long and 4 feet wide

ANS: b) 7 feet long and 4 feet wide

2. Whether from natural mating or from artificial insemination, approximately how long do sperm live in the cow's reproductive tract?

- a) 2 hours b) 6 hours c) 10 hours d) 24 hours

ANS: d) 24 hours

3. The Net Energy requirement of lactating cows is closest to:

- a) .75 Mcal/lb b) 1.2 Mcal/lb c) 2.0 Mcal/lb

ANS: a) .75 Mcal/lb

4. Anionic salts are often fed to prevent milk fever in dairy cows. Which of the following is the best time to feed them?

- a) during the 3 weeks after calving b) during the 2 weeks before calving
c) at the beginning of the dry period

ANS: b) during the 2 weeks before calving

5. What vitamin continues to be a superstar for its multitude of positive benefits? It boosts the immune system, helps with secretion and regulation of insulin by the pancreas, regulates heart and blood pressure, improves muscle strength and brain activity and is long known for preventing rickets.

ANS: Vitamin D

Phase C20 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. What hormone is secreted by the corpus luteum?

ANS: progesterone

2. What does P.I. stand for in reference to milk quality testing?

ANS: Preliminary Incubation

3. Biotin, in addition to increasing milk production, has a positive effect on which one of the following parts of a dairy cow?

a) lungs b) teats c) udder d) hoof

ANS: d) hoof

4. Cryptosporidiosis (crypto) affects this part of the digestive system:

a) reticulum b) rumen c) small intestine d) omasum

ANS: c) small intestine

5. What do we term a completely hydrogenated fat that contains no double bonds?

a) unsaturated fat b) vegetable oil c) saturated fat

ANS: c) saturated fat

6. Which one of the following is a sugar?

- a) casein b) phenylalanine c) omega-3 d) lactose

ANS: d) lactose

7. Which one of the following normally occurs first during a lactation cycle:

- a) peak feed intake b) body weight gain c) peak milk production

ANS: c) peak milk production

8. What is the name of the gas that is formed in anaerobic digesters?

ANS: Methane

9. Which one of the following refers to a bull's offspring?

- a) grandsire b) litter c) progeny d) flock

ANS: c) progeny

10. A deficiency of what mineral has been associated with retained fetal membranes (RFM) in cows and white muscle disease in calves?

ANS: selenium

11. To maintain profit margins, a dairy farmer should be monitoring and making decisions based on the herd's IOFC. What do the initials IOFC stand for?

ANS: Income Over Feed Costs

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

ANS: Anthelmintics (also accept dewormers)

13. Bovine spongiform encephalopathy or BSE is more commonly known as what disease?

ANS: Mad Cow Disease

14. What substance can increase to toxic levels in the lower section of the corn plant stalk during a prolonged period of drought?

ANS: Nitrate

15. What is the time period called after calving (abbreviated VWP) when you choose not to breed a cow?

ANS: Voluntary Waiting Period

16. In reference to milk production records, what does M.E. stand for?

ANS: Mature Equivalent

17. Why should a teat dip be used after milking?

ANS: To reduce or prevent udder infections (mastitis)

18. There are 9 kilocalories of energy provided in one gram of:

a) protein b) carbohydrate c) fat d) water

ANS: c) fat

19. Which section of the reproductive tract does the A.I. inseminating rod pass through just before the semen is deposited?

ANS: cervix

20. Which class is Grade A milk that is used for fluid consumption assigned?

a) Class 1 b) Class 2 c) Class 3 d) Class 4

ANS: a) Class 1

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 official placing on a class of cows is 3-4-2-1 with cuts of 4-4-5. Your placing is 4-3-1-2. Calculate your score.

ANS: 41

2. What is the most costly disease affecting the dairy industry?

ANS: Mastitis

3. What is the minimum amount of silage that should be removed from the exposed surface of a trench silo each day to prevent spoilage?

a) 2 inches b) 6 inches c) 12 inches d) 24 inches

ANS: b) 6 inches