

2002 Senior Dairy Quiz Bowl Questions

Round 04

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. What is the name of the sugar found in milk?

ANS: Lactose

2. On the PDCA Dairy Cow Unified Score Card, what category contains the reference to the “barrel”?

ANS: Body capacity

3. What is the term for a sterile female born twin to a bull?

ANS: Freemartin

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

ANS: North Carolina Dairy Youth Foundation

5. True or False

Johne’s (pronounced “yo-nees”) disease can be controlled and prevented but at the present time there is no cure for Johne’s disease.

ANS: True

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. Well-grown Holstein heifers should be bred at what age?

- a) 9 to 11 months b) 13 to 15 months c) 18 to 20 months d) 22 to 24 months

ANS: b) 13 to 15 months

2. What is the name of the process that breaks up the fat globules so that they are evenly distributed in the milk?

ANS: Homogenization

3. What is the term that refers to “mad cow disease”?

- a) BST (bovine somatotropin) b) BSE (bovine spongiform encephalopathy)
c) FMD (foot and mouth disease)

ANS: b) BSE (also accept bovine spongiform encephalopathy)

4. In the first month after calving, what normally happens to the lactating cow’s body weight?

- a) it increases b) it decreases c) it does not change

ANS: b) it decreases

5. Which of the following causes ringworm in calves?

- a) bacteria b) fungus c) lice

ANS: b) fungus

6. A deficiency of which one of the following minerals causes grass tetany?

a) Iron) Phosphorous c) Magnesium d) Molybdenum

ANS: c) Magnesium

7. Cottonseed hulls are often included in the rations of dairy cows and heifers because they are a good source of:

a) protein b) fat c) fiber d) energy

ANS: c) fiber

8. Where did the Holstein breed originate?

ANS: Netherlands

9. On the PDCA Dairy Cow Unified Score Card, which of the following udder traits is given the most priority?

a) fore udder b) rear udder c) udder cleft d) udder depth

ANS: d) udder depth

10. An oxidized flavor may develop in milk if there is a deficiency of this vitamin in the lactating cow's diet:

a) Vitamin A b) Vitamin C c) Vitamin D d) Vitamin E

ANS: d) Vitamin E

11. What does PC-DART refer to:

a) a new type of robotic milking machine
b) the phosphorous and calcium level in the ration
c) a dairy records program for use with personal computers

ANS: c) a dairy records program for use with personal computers

12. What is an "anthelmintic"?

a) a de-wormer b) an ionophore c) a treatment for mastitis

ANS: a) a de-wormer

13. Name the structure found on the ovary that is also referred to as a "yellow body":

ANS: Corpus luteum

14. What is the name of the hormone produced by the corpus luteum that maintains pregnancy?

- a) estrogen b) testosterone c) progesterone d) oxytocin

ANS: c) progesterone

15. Deoxynivalenol (DON), T2, Zearalenone and Fumonisin are examples of:

- a) carbohydrates b) proteins c) mycotoxins d) lipids

ANS: c) mycotoxins

16. What do the initials ET stand for on a Holstein pedigree?

ANS: Embryo Transfer

17. True or False

The disease cryptosporidiosis in calves can be transmitted to humans.

ANS: True

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

ANS: 44

19. What is the name of the primary milk protein?

ANS: Casein

20. How much water does normal whole milk contain?

- a) 67.6% b) 77.6% c) 87.6% d) 97.6%

ANS: c) 87.6%

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. Normally calves being fed milk should receive an amount of milk each day that is this percentage of their body weight:

a) 5 to 6 % b) 8 to 10% c) 14 to 16 % d) 18 to 20%

ANS: b) 8 to 10%

2. What do the letters BLUP stand for when talking about genetic evaluations?

ANS: BEST LINEAR UNBIASED PREDICTION

3. What is the common name for diarrhea in calves?

ANS: Scours

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

ANS: Phenotype

5. Gossypol is a chemical compound which has been found to be toxic to some livestock when fed in excess. Name a common feed ingredient that may contain gossypol.

ANS: Cottonseed meal or Whole cottonseed