

2010 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 reference to milk production, what does FCM stand for?

ANS: Fat-corrected milk

2. What is determined by multiplying the nitrogen content of a feed by 6.25?

a) crude protein b) carbohydrate content c) energy level

ANS: a) crude protein

3. In reference to the dairy cow, which one of the following is located between the dew claw and the thigh?

a) thurl b) knee c) hock d) pastern

ANS: c) hock

4. Which of the following is not a good source of energy for dairy cows?

**a) corn grain b) corn gluten feed
c) cottonseed hulls d) barley grain**

ANS: c) cottonseed hulls

5. What is a calf with parents of two different breeds called?

ANS: a crossbreed (or crossbred)

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. In the reproductive tract of a dairy cow, how many uterine horns are there?

- a) one b) two c) three d) four

ANS: b) two

2. What does the homogenization process do?

- a) sterilizes the milk b) distributes the fat evenly throughout the milk
c) pasteurizes the milk d) makes yogurt

ANS: b) distributes the fat evenly throughout the milk

3. Niacin is:

- a) a mineral b) a protein c) a B vitamin

ANS: c) a B vitamin

4. Which of these ingredients would you expect to find in a milk replacer?

- a) soybean hulls b) dried whey c) wheat bran d) alfalfa meal

ANS: b) dried whey

5. The process of flushing fertilized eggs from donor cows and implanting them in recipient cows is called:

- a) artificial insemination b) gestation c) embryo transfer

ANS: c) embryo transfer

6. Displaced abomasums are usually the result of:

- a) excess protein**
- b) genetic defects**
- c) low fiber rations**

ANS: c) low fiber rations

7. For DHIA records, lactation length is standardized to:

- a) 365 days**
- b) 305 days**
- c) 325 days**

ANS: b) 305 days

8. The normal water content of milk is approximately:

- a) 97.5%**
- b) 87.5%**
- c) 79.5%**

ANS: b) 87.5%

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

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

ANS: a) 50 to 55 degrees F

10. Which of the following food products is not made from milk?

- a) cheese**
- b) yogurt**
- c) Cool-Whip**
- d) ice cream**

ANS: c) Cool-Whip

11. What is the name of the liquid found in semen storage tanks on dairy farms that has a temperature of minus 320 degrees F (- 320 degrees F)?

ANS: liquid nitrogen

12. What direction do you move when leading a dairy animal in the show ring?

- a) clockwise**
- b) counter-clockwise**
- c) it does not matter**

ANS: a) clockwise

13. Fumonisin and zearalenone are examples of:

- a) viruses b) mycotoxins c) lipids d) carbohydrate

ANS: b) mycotoxins

14. Which organization developed the Dairy Cow Unified Score Card for judging dairy cattle?

ANS: Purebred Dairy Cattle Association (also accept PDCA)

15. As a growing plant gets older, what happens to its concentration of fiber?

- a) it increases b) it decreases c) it remains the same

ANS: a) it increases

16. Which of the following is not a legume?

- a) soybeans b) alfalfa c) clover d) corn

ANS: d) corn

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

ANS: To reduce or prevent udder infections (mastitis)

18. Drought-stressed forages can be toxic to dairy animals due to:

- a) high protein b) high fat c) high nitrates

ANS: c) high nitrates

19. Most of the dairy cows in North Carolina are found in:

- a) the Mountains b) the Piedmont c) the Coastal Plains

ANS: b) the Piedmont

20. Which one of the following, when fed in excess, can cause overconditioned (fat) heifers?

- a) protein b) fiber c) energy d) calcium

ANS: c) 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. Cream is very high in:

a) protein b) whey c) fat d) lactose

ANS: c) fat

2. A pH of 7 is neutral. What does a pH lower than 7 indicate?

a) acidic conditions b) basic conditions c) fever condition

ANS: a) acidic conditions

3. Should a close-up dry cow receive a cationic, anionic or neutral diet?

ANS: an anionic diet