

2012 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. What is a calf with parents from two different breeds called?

ANS: a crossbreed (or crossbred)

2. What term refers to feed that has been chewed by a cow and is then regurgitated for re-chewing?

ANS: Cud

3. 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

4. If we don't dip the navel of a newborn calf with tincture of iodine solution, the calf may develop a condition called "Navel-ill". This will often result in swelling and inflammation in what part of the calf's body?

ANS: Joints

5. A pH of 7 is neutral. What does a pH higher than 7 indicate?

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

ANS: b) basic conditions

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. What is the name of the person who invented the pasteurization process?

ANS: Louis Pasteur

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. What does it indicate when a cow has a high SCC?

ANS: Infection or Mastitis

4. Which of the following regions of North Carolina has the most dairy cows?

- a) Mountains b) Coastal Plain c) Piedmont

ANS: c) Piedmont

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

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

ANS: c) high nitrates

6. Niacin is:

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

ANS: c) a B vitamin

7. What is made when you churn fresh milk?

ANS butter

8. Where is the material deposited when an injection is given IV?

ANS: In the vein

9. What disease is prevented by the use of a special magnet that is placed into the reticulum of a heifer or cow?

ANS: Hardware Disease

10. What is the name of the structural units of protein?

ANS: Amino Acids

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

a) dried whey b) wheat bran c) alfalfa meal

ANS: a) dried whey

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

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

ANS: c) 305 days

13. Which of the following food products is not a real dairy product?

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

ANS: d) Cool-Whip

14. 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

15. 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

16. 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

17. What is the most common respiratory disease in baby calves?

ANS: Pneumonia

18. 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

19. Which vitamin functions to coagulate blood?

ANS: Vitamin K

20. Which month is designated as "Dairy Month"?

ANS: June

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. **Face flies** are known for spreading what disease among dairy cattle?

ANS: Pinkeye

2. When a cow has "**Milk Fever**" there is a large **decrease** of this **mineral** in the blood?

ANS: Calcium

3. **Cream** is very high in:

a) amino acids b) fat c) whey d) lactose

ANS: b) fat