

Junior Round 6

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. *Mycobacterium Paratuberculosis* is the name of the organism responsible for which of the following diseases?
 - a. Johne's Disease
 - b. Foot and Mouth Disease
 - c. Mad Cow Disease
 - d. Bang's Disease

ANSWER: a. Johne's Disease

2. What is the common name for an erythrocyte?
 - a. Red Blood Cell
3. How many amino acids are considered to be essential in the dairy cow and are required in the diet?
 - a. 10
4. As milk yield declines with advancing lactation, milk fat test will usually:
 - a. Increase
 - b. Decrease
 - c. Remain constant

ANSWER: increase

5. In reference to forage analysis, what does "ADF" stand for?
 - a. Acid detergent fiber
6. Metritis is the technical name for what condition?
 - a. Birth
 - b. Uterine infection
 - c. Lameness
 - d. Retained placenta

ANSWER: uterine infection

7. Name the primary substance secreted when a cow chews that helps maintain rumen pH?
 - a. Saliva (also accept sodium bicarbonate or bicarb)
8. In what main category on the PDCA Dairy Cow Unified Score Card is the Rump listed?
 - a. Frame
9. What is the approximate gestation length for a dairy cow?
 - a. 280 days
 - b. 305 days
 - c. 150 days
 - d. 21 days

ANSWER: a. 280 days

10. Which vitamin is routinely added to milk?

- a. Vitamin K
- b. Vitamin D
- c. Vitamin E
- d. Vitamin C

ANSWER: b. vitamin D

11. How much does 10 gallons of milk weigh?

- a. 66 pounds
- b. 76 pounds
- c. 86 pounds
- d. 96 pounds

ANSWER: c. 86 pounds

12. What are the basic structural components of proteins called?

- a. Amino acids

13. Which one of the following causes ringworm?

- a. Bacteria
- b. Virus
- c. Fungus

ANSWER: c. fungus

14. Which major breed has its national headquarters in Brattleboro, Vermont?

- a. Holstein

15. In the cow's reproductive tract, where are the muscular rings found?

- a. Cervix

16. What is the name of the process that distributes fat evenly throughout the milk?

- a. Homogenization

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

- a. To reduce or prevent udder infections (mastitis)

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

- a. The mountains
- b. The piedmont
- c. The coastal plains

ANSWER: b. the piedmont

19. Which one 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. Virus
- b. Bacteria
- c. Protozoa
- d. Staphylococcus

ANSWER: a. virus

20. Soybean meal is commonly added to calf starters to provide

- a. Energy
- b. Fiber
- c. Protein
- d. Carbohydrate

ANSWER: c. protein