

Junior Set 2

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. When evaluating a farm's business records, what is determined by subtracting the total liabilities from the total assets?
 - a. Total income b. net worth c. monthly payments to a lender
 - b. ANSWER: b. net worth
2. As corn silage ferments properly in the silo, what happens to the pH of the silage?
 - a. It increases b. it decreases c. it does not change
 - b. ANSWER: b. it decreases
3. What is the number of days in milk for a standard lactation?
 - a. 305 days
4. On a percentage basis, how much water is contained in normal milk?
 - a. 67.5% b. 77.5% c. 87.5% d. 97.5%
 - b. ANSWER: c. 87.5%
5. When should the newborn calf receive its first feeding of colostrum?
 - a. After one week of age b. at 3 days of age c. as soon as possible, preferably within the first 30 minutes of life
 - b. ANSWER: c. as soon as possible, preferably within the first 30 minutes of life
6. In dairy cows, what metabolic disease is caused by the incomplete metabolism of body fat?
 - a. Lameness b. ketosis c. BVD d. pneumonia
 - b. ANSWER: b. ketosis
7. What is the name of the disease caused by a deficiency of Vitamin D?
 - a. Rickets
8. Grade A milk that is used for fluid consumption is classified into which of the following classes?
 - a. Class 1 b. class 2 c. class 3 d. class 4
9. Which of the following cotton feedstuffs is lowest in crude protein?
 - a. Cottonseed meal b. whole cottonseed c. cottonseed hulls
 - b. ANSWER: c. cottonseed hulls
10. Which of the following is the primary protein found in milk?
 - a. Methionine b. tryptophan c. casein d. lactose
 - b. ANSWER: c. casein
11. In dairy cattle judging, which category on the PDCA Dairy Judging Scorecard are you referring to when you describe the cow as being weak in the pasterns?
 - a. Frame b. dairy character c. body capacity d. feet and legs e. udder
 - b. ANSWER: d. feet and legs

12. At the conclusion of what major sporting event does the victor traditionally drink milk?
a. Kentucky Derby b. Wimbledon c. Indianapolis 500 d. Super Bowl
b. ANSWER: c. Indianapolis 500
13. What is the name of a sterile heifer that is born twin to a bull?
a. Freemartin
14. Which of the following hormones is critical in the initiation and maintenance of lactation?
a. Oxytocin b. estrogen c. prolactin
b. ANSWER: c. prolactin
15. Lactose is the name of the sugar that is found only in milk. Which of the following combine to form lactose?
a. Glucose and fructose b. glucose and galactose c. glucose and sucrose
d. glucose and aspartame
b. ANSWER: b. glucose and galactose
16. Which of the following describes a zoonotic disease (or zoonoses)?
a. a disease that is transmitted between vertebrate animals and humans
b. a disease only found in zoos c. an incurable disease d. a subclinical disease
b. ANSWER: a. a disease that is transmitted between vertebrate animals and humans
17. What does PTA stand for in a sire summary?
a. Predicted Transmitting Ability
18. Why do dairy farmers often place KAMAR detectors on their cows?
a. To detect heat or estrus
19. Name the city and state where the National Dairy Shrine is located?
a. Fort Atkinson, Wisconsin
20. Which one of the following compartments of the ruminant stomach functions in a similar manner as the human stomach?
a. Rumen b. reticulum c. omasum d. abomasum
b. ANSWER: d. abomasum

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