

2015 Senior Dairy Quiz bowl Questions

Round 1

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. Which one of the following feeds is a by-product of an ethanol fuel production facility?
a) alfalfa b) fescue c) distillers grains d) clover

ANS: c) distillers grains

2. Which normally occurs first in a lactating dairy cow, peak milk production or peak feed intake?

ANS: Peak milk production

3. The DRMS is located in Raleigh. What does DRMS stand for?

ANS: Dairy Records Management Systems

4. North Carolina is included in which of the following Federal Milk Marketing Orders?
a) Southeast b) Appalachian c) Central d) Mideast

ANS: b) Appalachian

5. In a 400 cow breeding herd with a 75% conception rate, how many cows would need to be bred the second time?

ANS: 100

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 document that establishes the standards for Grade A milk?

ANS: Pasteurized Milk Ordinance (also accept PMO)

2. If a cow is bred in June when will she calve?

ANS: March

3. Beef producers pay a one dollar per head checkoff for each beef animal sold at market. How much do dairy producers pay for each cull dairy cow that is sent to market?

a) nothing b) 15 cents c) 50 cents d) one dollar

ANS: d) one dollar

4. What is the name of the hormone that is released from the anterior pituitary gland and stimulates follicular growth?

ANS: FSH or follicle stimulating hormone

5. Who is the current U.S. Secretary of Agriculture?

ANS: Mike Johanns

6. 3. Which of the following is the temperature (in degrees F) of liquid nitrogen?

a) - 120 degrees F b) - 220 degrees F c) -320 degrees F d) - 420 degrees F

ANS: c) -320 degrees F

7. Which mineral is associated with the prevention of goiter?

ANS: Iodine

8. On a milking system, what prevents the vacuum from going too high?

ANS: Vacuum regulator or controller (accept regulator or controller)

9. Chromosomes are found in the nucleus of the cell. How many pairs of chromosomes do dairy cattle have?

a) 10 b) 20 c) 30 d) 40

ANS: c) 30

10. In which one of the following breeds is DUMPS, an inherited condition which results in embryonic death, found?

a) Jersey b) Guernsey c) Holstein

ANS: c) Holstein

11. On the PDCA Dairy Cow Unified Score Card, what category contains the reference to "Stature"?

ANS: Frame category

12. Which one of the following describes the lining of the abomasum?

a) honeycomb b) covered with papillae
c) a mucous covered lining to protect it from the hydrochloric acid that is secreted

ANS: c) a mucous covered lining to protect it from the hydrochloric acid that is secreted

13. Which of the following dairy products are being promoted with the "3-A-Day" slogan?

a) milk, butter and cheese b) milk, cheese and yogurt c) milk, whey and butter

ANS: b) milk, cheese and yogurt

14. When referring to milk composition analysis, what does MUN stand for?

ANS: Milk Urea Nitrogen

15. If a 1500 pound cow is eating an amount of feed dry matter equivalent to 3% of its body weight, how many pounds of feed dry matter is the cow eating?

ANS: 45 pounds of feed dry matter

16. Which one of the following terms refers to practices that prevent the introduction or spread of disease on the farm?

- a) biosecurity b) clarification c) homogenization d) incubation

ANS : a) biosecurity

17. If you breed a heterozygous polled bull to your herd of cows, that are horned, what percentage of the calves will be heterozygous polled?

ANS: 50%

18. 8. Which one of the following can be a source of the toxic substance “prussic acid”?

- a) soybean meal b) sorghum forage when it becomes damaged by frost c) corn grain

ANS: b) sorghum forage when it becomes damaged by frost

19. During which one of the following times of the year is the consumer demand for dairy products typically the lowest?

- a) spring b) summer c) fall d) winter

ANS: b) summer

20. Cattle can develop “grass tetany” when grazing lush pasture. Which one of the following causes grass tetany?

- a) brucellosis b) bloat c) a deficiency of magnesium

ANS: d) a deficiency of magnesium

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. 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

ANS: b) it decreases

2. 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

3. What dry period length is best to maximize milk production in the following lactation?

- a) 60 days b) 40 days c) 90 days d) 30 days

ANS: a) 60 days