

2010 Junior Dairy Quiz Bowl Questions

Round 05

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 the average duration of standing heat in a dairy cow?

- a) 6-12 hours
- b) 12-18 hours
- c) 18-24 hours
- d) 24-36 hours

ANS: b) 12-18 hours

2. Lag time or the time from stripping teats to putting on the units is the most important part of the milking routine. The goal is to get the teat cups on in how many seconds after stripping?

- a) 1 to 1 ½ minutes
- b) 3 to 4 minutes
- c) 5 to 6 minutes

ANS: a) 1 to 1 ½ minutes

3. What nutritional disease is most often associated with laminitis (founder) in dairy cows?

ANS: acidosis

4. Which of the following is the term for a completely hydrogenated fat that contains no double bonds?

- a) unsaturated fat
- b) saturated fat
- c) vegetable oil

ANS: b) saturated fat

5. 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

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. The Jersey breed originated on a British channel island. Spell the name of the other breed of dairy cow that is fawn-colored with white patches and also originated on an island in the British channel.

ANS: G-U-E-R-N-S-E-Y

2. Which of the following U.S. states produced the most pounds of milk in 2009?

a) California b) New Mexico c) Texas d) Pennsylvania

ANS: a) California

3. Anaerobic manure digesters convert what gas into electricity?

ANS: Methane

4. In a conventional milk feeding program, which of the following is a typical amount of milk to offer a calf on a daily basis?

a) 1 pint b) 1 quart c) 1 gallon d) 4 gallons

ANS: c) 1 gallon

5. Which is not a compartment of the cow's stomach?

a) duodenum b) reticulum c) rumen d) abomasum

ANS: a) duodenum

6. When a calf is born, the normal delivery position is:

- a) back feet first b) head first, then the front feet c) front feet first, then the head**

ANS: c) front feet first, then the head

7. Which of the following is the best sign that a cow is in heat?

- a) bellowing b) red, swollen vulva c) stands to be mounted**

ANS: c) stands to be mounted

8. What is the minimum legal butterfat percentage found in processed whole milk?

- a) 2% b) 3.25% c) 3.75% d) 4%**

ANS: 3.25%

9. Which breed has its major All-American Show in Louisville, Kentucky?

- a) Ayrshire b) Guernsey c) Jersey d) Brown Swiss**

ANS: c) Jersey

10. Using a scale 1 to 5, what should a dry cow's body condition score be?

- a) 1.5 to 2.0 b) 2.5 to 3.0 c) 3.5 to 4.0**

ANS: c) 3.5 to 4.0

11. If you see the term "3X" in a dairy cow's production records, what does it stand for?

ANS: the cow is milked 3 times each day

12. How old should the average well-grown Holstein heifer be when she is bred?

- a) 8-12 months b) 13-15 months c) 16-18 months d) 22-24 months**

ANS: b) 13-15 months

13. At what point in a lactation curve does peak lactation typically occur?

- a) 2-4 weeks b) 6-8 weeks c) 10-12 weeks d) 12-14 weeks**

ANS: b) 6-8 weeks

14. Which of the following is a warm season or C4 grass?

- a) fescue b) alfalfa c) bermuda d) orchardgrass

ANS: c) bermuda

15. What term describes semen that is thawed and then subjected to cool temperatures before reaching the cow?

ANS: cold shocked

16. Which of the following is the name of the organization that is charged with evaluating genetic traits of dairy cattle?

- a) Animal Improvement Programs Laboratory (AIPL)
b) Dairy Business Association (DBA) c) Dairy Herd Improvement Association (DHIA)
d) World Dairy Expo (WDE)

ANS: a) Animal Improvement Programs Laboratory (AIPL)

17. Gossypol is a toxic pigment that can be found in which one of the following:

- a) corn grain b) alfalfa hay c) whole cottonseed d) wheat silage

ANS: c) whole cottonseed

18. Your veterinarian says that a cow is in the first trimester. What does that mean?

- a) first 3 months of pregnancy b) first 3 months of lactation
c) first part of the dry period

ANS: a) first 3 months of pregnancy

19. What is the name of the blister-like structure on the ovary that contains the egg before ovulation?

- a) follicle b) corpus luteum c) zygote d) embryo

ANS: a) follicle

20. What is the minimum amount of silage that should be removed from the exposed surface of a trench silo each day to prevent spoilage?

- a) 2 inches b) 6 inches c) 12 inches d) 24 inches

ANS: b) 6 inches

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. Which of the following feeds contains the most protein?

a) wet brewer's grains b) wheat middlings c) corn gluten meal

ANS: c) corn gluten meal

2. Write this down: A dairy cow is producing 100 pounds of milk per day that contains 3.0% fat. How many pounds of fat is she producing daily?

ANS: 3.0 pounds

3. What is a fat source called that is either chemically treated or physically encapsulated so that it is not degraded in the rumen, but is still available for digestion in the small intestine?

ANS: Rumen-protected or rumen-inert