

2010 Junior Dairy Quiz Bowl Questions

Round 04

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. According to *Hoard's Dairyman*, North Carolina ranked 20th among US states in average milk production per cow with an average milk production of how many pounds per cow?

- a) 15,628 lbs b) 18,120 lbs c) 19,644 lbs d) 23,412 lbs

ANS: c) 19,644 lbs

2. Many dairy farmers calculate IOFC to help evaluate their profitability, what does the abbreviation IOFC stand for?

ANS: Income over feed cost(s)

3. Write this down: The official placing on a class of cows is 3-4-2-1 with cuts of 3-4-5. Your placing is 4-3-1-2. Calculate your score.

ANS: 42

4. Cellulose, hemicellulose and lignin are the components of:

- a) acid detergent fiber (ADF)
b) crude protein
c) neutral detergent fiber (NDF)
d) rumen-undegradable protein (RUP)

ANS: c) neutral detergent fiber (NDF)

5. Write this down: A cow is consuming 100 pounds of actual (as-fed) pounds of a total mixed ration (TMR) each day. This TMR contains 50% dry matter. How many pounds of dry matter is the cow consuming per day?

ANS: 50 pounds of dry matter

Calculation: 100 pounds of actual (as-fed) TMR X 50% dry matter = 50 pounds of dry matter

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 approximate gestation length for a dairy cow?

- a) 21 days
- b) 340 days
- c) 150 days
- d) 280 days

ANS: d) 280 days

2. Which dairy breed generally has the highest level of milk production?

- a) Jersey
- b) Holstein
- c) Guernsey
- d) Ayrshire

ANS: b) Holstein

3. How many pounds does a bushel of shelled corn weigh?

- a) 26 lb
- b) 42 lb
- c) 56 lb
- d) 65 lb

ANS: c) 56 lbs

4. The National Dairy Shrine Museum is located in which of the following locations?

- a) Madison, Wisconsin
- b) Fort Atkinson, Wisconsin
- c) Louisville, Kentucky
- d) Harrisburg, Pennsylvania

ANS: b) Fort Atkinson, Wisconsin

5. What term describes the average number of days between the latest two calving dates for all cows in the herd?

- a) Days open
- b) Dry period
- c) Calving interval

ANS: c) Calving interval

6. A young calf needs energy to maintain body functions under normal conditions, which range from 50 degrees F to 78 degrees F. What is this temperature range referred to as?

- a) comfort range b) thermal-neutral zone c) heat index

ANS: b) thermal-neutral zone

7. How many points are allotted for “Udder” on the 2009 PDCA Dairy Cow Unified Score Card?

ANS: 40 points

8. The number of dairy cows in the US peaked in what year?

- a) 1885 b) 1945 c) 1985 d) 2010

ANS: b) 1945

9. In a high producing, early lactation dairy cow, what happens to her body weight when she enters a negative energy balance phase?

- a) it increases b) it decreases c) it stays the same

ANS: b) it decreases

10. In a 4-H dairy cattle judging contest, how many minutes are allowed for you to present a set of oral reasons?

ANS: 2 minutes

11. What does the Standard Plate Count measure in milk?

- a) bacteria count b) somatic cell count c) identity of bacteria strain

ANS: bacteria count

12. Which one of the following is the term for the diet that we feed to dairy cows 2 to 3 weeks before the expected calving date?

- a) transition diet b) high protein diet c) low fiber diet

ANS: a) transition diet

13. What is the common name for “parturient paresis”?

ANS: milk fever (or hypocalcemia)

14. Which class is Grade A milk that is used for fluid consumption assigned?

- a) Class I b) Class II c) Class III d) Class IV**

ANS: a) Class I

15. Which of the following is the most costly form of mastitis?

- a) subclinical b) acute c) clinical d) flaky**

ANS: a) subclinical

16. The time period after calving when you choose not to breed a cow is abbreviated VWP. What does VWP stand for?

ANS: Voluntary Waiting Period

17. Bovine spongiform encephalopathy or BSE is more commonly known as what disease?

ANS: Mad Cow Disease

18. What is the technical term for the class of chemicals used to kill internal parasites in cattle?

ANS: Anthelmintics (also accept dewormers)

19. Who developed the butterfat test that was the basis for DHIA testing?

- a) Pasteur b) Borden c) Babcock d) Westphalia**

ANS: c) Babcock

20. Which compartment of the ruminant stomach functions to trap foreign objects such as wire or nails that may be eaten?

ANS: reticulum

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. What term, common to ruminants, describes a bolus of regurgitated food that is chewed and re-swallowed?

ANS: cud

2. If a corn silage sample contains 65% moisture, what percentage dry matter is it?

ANS: 35% dry matter

3. In reference to veterinarians, what do the letters AABP stand for?

ANS: American Association of Bovine Practitioners