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. <u>After one team has been questioned, the other team will enter the contest room and be asked the same 5 questions</u>.

1. What term describes an animal that has <u>2 alleles at a given locus that are identical</u>?

ANS: Homozygous

2. What happens to the <u>taste </u>of milk as the protein level in the milk increases?

a) the taste improves   b) the taste does not improve   c) the milk tastes salty

ANS: a) the taste improves

3. Which bovine stomach compartment functions like a human stomach?

ANS: abomasums

4. What is another name for a <u>twisted stomach</u>?

ANS: displaced abomasum (also accept DA or LDA)

5. Are the B-vitamins <u>water soluble</u> or <u>fat soluble</u>?

ANS: water soluble

Phase C   20 Questions   Correct answers are worth 15 points each.

Both teams are in the room for Phase C. <u>The first contestant to signal will answer the question within 5 seconds after being acknowledged by the moderator.</u> 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. <u>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.</u> 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. Soybean meal is generally added to dairy rations to supply what nutrient?

ANS: protein

2. How many teeth does a cow have in the front upper jaw?

ANS: none

3. What is a common term for <u>rumen undegradable protein</u> (RUP)?

ANS: bypass protein

4. Citrus pulp, whole cottonseed and corn gluten feed are examples of which of the following?

a) concentrates   b) roughages   c) by-product feeds

ANS: c) by-product feeds

5. The <u>duodenum, ileum and jejunum</u> are all sections of the _____?

a) colon   b) small intestine   c) pancreas

ANS: b) small intestine

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

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

ANS: a) transition diet

7. What does the term "3X" mean on a dairy cow's production record?

ANS: the cow is milked 3 times each day

8. 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

9. Which <u>class</u> of milk describes that used for <u>drinking (fluid milk)</u>?
ANS: Class I

10. Which of the following minerals <u>provided in excess during the dry period</u> may result in milk fever?

a) sodium   b) calcium   c) selenium

ANS: b) calcium

11. From which side of the animal should you lead an animal when showing?

ANS: left side

12. Where is the national 4-H dairy cattle judging contest held?

ANS: Madison, Wisconsin (also accept Wisconsin or the World Dairy Expo)

13. On the 2009 Dairy Cow Unified Score Card, reference to the withers is listed under which main category?
ANS: Dairy Strength

14. In reference to milk production, what does FCM stand for?

ANS: Fat-Corrected Milk

15. Which of the following is <u>not</u> a good source of energy for dairy cows?

a) corn grain   **b) corn gluten feed**
c) cottonseed hulls   **d) barley grain**

ANS: c) cottonseed hulls

16. What is the name of the process that <u>distributes the fat evenly throughout the milk</u>?

ANS: homogenization

17. What is the <u>standard lactation length</u> (in days) on DHIA records?

ANS: 305 days

18. The process of flushing fertilized eggs from donor cows and implanting them in recipient cows is called:

a) artificial insemination   **b) gestation**   **c) embryo transfer**

ANS: c) embryo transfer

19. What <u>percentage of their mature weight</u> should first lactation cows weigh?

a) 55%   **b) 65%**   **c) 75%**   **d) 85%**

ANS: d) 85%

20. What describes "<u>days to first service</u>"?

a) calving interval   **b) number of days from calving until first breeding date**
c) days open   **d) days dry**

ANS: b) number of days from calving until first breeding date

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. <u>The answers must come from the team captain but assistance can come from the other team members</u>. 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 one of the following is <u>not</u> a B-vitamin?

a) carotene   b) folic acid (folate)   c) niacin   d) biotin

ANS: a) carotene

2. Which of the following <u>dry period lengths</u> will maximize milk production in the following lactation?

a) 90 days   b) 60 days   c) 30 days   d) 10 days

ANS: b) 60 days

3. What is the most common disease caused by _Staph. aureus_, _Strep. uberis_, and _Klebsiella_?

ANS: mastitis