

Senior Round 7

**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. Pasteurella pneumonia is commonly known as what?
  - a. Shipping fever (or disease)
2. What does P.I. stand for in reference to milk quality testing?
  - a. Preliminary Incubation
3. Most AI organizations recommend that inseminators should place semen in this section of the reproductive tract
  - a. Cervix
  - b. Uterine body
  - c. Uterine horn
  - d. Fallopian tube

ANSWER: b. uterine body
4. What is the name of the enzyme that is added to milk to make cheese?
  - a. Rennet
5. What is the name of the toxic pigment that can be found in whole cottonseed?
  - a. Gossypol
6. What is the process called when an egg from a cow and spermatozoa from a bull are joined?
  - a. Fertilization
7. What is the name of the muscle that keeps the teats closed and helps prevent organisms from entering the udder?
  - a. Sphincter muscle
8. Name the metabolic disorder that a deficiency of magnesium can cause in cows grazing lush pasture
  - a. Grass tetany (also accept grass staggers)
9. If the milking machine milk to rest pulsation ratio is set at 55:45, what percent of the time is the inflation open?
  - a. 55%

10. In reference to dairy cattle reproduction, what is the term for a fertilized egg?
- a. Zygote
11. What are the two most limiting amino acids for milk production?
- a. Methionine and lysine
12. During heat stress, which one of the following times is closest to when a typical cow's internal body temperature peaks?
- a. 11:30 pm
  - b. 11:30 am
  - c. 7:30 pm
  - d. 7:30 am

ANSWER: a. 11:30 pm

13. What is the term for the process where in the presence of light, chlorophyll- containing plants convert carbon dioxide and other elements into carbohydrates and oxygen?
- a. Photosynthesis
14. What is the name of the document that establishes the standards for Grade A milk?
- a. Pasteurized Milk Ordinance (also accept PMO)
15. If a cow is bred in June, when will she calve?
- a. March
16. Which mineral is associated with the prevention of goiter?
- a. Iodine
17. What body system does Bovine Spongiform Encephalopathy (BSE) affect?
- a. Reproductive system
  - b. Digestive system
  - c. Central nervous system

ANSWER: c. central nervous system

18. What term describes mating two purebred animals of different breeds?
- a. Crossbreeding
19. To help prevent milk fever, anionic salts may be added to close-up dry cow rations. What type of electrical charge does an anion have?
- a. Negative charge
20. Which of the following countries has the greatest population of dairy cows?
- a. United States
  - b. France
  - c. Denmark
  - d. India

ANSWER: India