

HOLSTEIN FOUNDATION AYRSHIRE QUIZ BOWL 2016 PRACTICE QUESTIONS

1. While most consumers associate milk with high calcium content, they don't realize that whole milk is what percent fat-free?

97% (Dairy Herd Management)

2. What two feedstuffs might you add to a calf's ration in order to make the calf like the taste?

Molasses and oats (HF Workbooks)

3. Fertility, as measured by daughter pregnancy rate, is lowest in which breed?

Guernsey (Hoard's Dairyman)

4. When a cow is in a flotation tank, approximately what percent of her body must she actually lift?

9 to 11% (the rest is supported by water) (Hoard's Dairyman)

5. Cattle that are maintained on a high concentrate diet will most likely be deficient in what?

Calcium (Other)

6. Bovine leukosis is caused by what kind of organism?

Virus (Hoard's Dairyman)

7. If you want to invest in heat-stress prevention, but have limited funds should you invest in fans or water first?

Water (Dairy Herd Management)

8. For the fastest rumen development in calves should a diet of milk and hay, or a diet of milk and grain be fed?

Milk and grain (Hoard's Dairyman)

9. All feedstuffs contain water. Which would have more water, silage at 15% moisture or silage at 45% moisture?

Silage containing 45% moisture (HF Workbooks)

10. An umbilical hernia is often seen in calves but is seldom fatal. Where would you see such a hernia?

Under the belly where the umbilical cord comes out (Other)

11. When taking steps to reduce alfalfa dry-down will a wide or narrow windrow swath dry faster?

Wide (Hoard's Dairyman 2015)

12. The first regular shipment of milk by railroad was between Orange County, New York and where else in 1841?

New York City (Other)

13. What is the name of the large blood vein visible in the neck that the vet can use to draw blood from or put in fluid?

Jugular (Other)

14. Where is bile stored?

Gall Bladder (HF Workbooks)

15. What is the most common cause of dystocia in dairy animals?

Calf too large to fit pelvis of mother (Hoard's Dairyman)

16. For long-term colostrum storage what is the best alternative?

Freezing (Hoard's Dairyman)

17. What dairy breed was the first to establish an advanced registry system in 1885?

Holstein (HAUSA Web Site)

18. What system does pneumonia primarily affect?

Respiratory (Hoard's Dairyman)

19. During the development of the Ayrshire breed, it was first referred to as what?

Cunningham (Ayrshire 2015)

20. What do we call those minerals that are needed in small amounts, but play an important role in an animal's performance?

Trace minerals (Other January 2015)

21. What term is commonly used to define the three weeks before and after calving?

Transition period (Hoard's Dairyman)

22. Typically, alfalfa is cut at what percent bloom?

10% bloom (Hoard's Dairyman)

23. What respiratory disease syndrome can develop in cattle following transport?

Shipping fever (Hoard's Dairyman 2014)

24. Name the 2014 Ayrshire Breeders' Association's Young Breeder Award recipient.

Rob Hazeltine (Ayrshire 2015)

25. What are the two minerals needed for bone and tooth formation?

Calcium and phosphorus (Other January 2015)

26. Butter begins to lose some of its natural flavor within how many months when stored at refrigerated temperatures?

6 months (Hoard's Dairyman)

27. What disease in children is usually attributed to a lack of vitamin D or insufficient exposure to sunlight?

Rickets (Dairy Herd Management)

28. Fear or pain will cause what hormone to enter a cow's blood stream?

Adrenaline (Hoard's Dairyman)

29. Multiple Choice: Which of the following groups has the legal right to work together in pricing their product: dairy farmers, feed dealers, private dairy processors or retailers of dairy products?

Dairy farmers (Hoard's Dairyman)

30. What term describes the study of the functions of the living body and its organs?

Physiology (Other January 2015)

31. Where on the dairy animal is the stifle located?

Joint nearest the body on the hind leg (Other)

32. In what year did producers begin teat dipping?

1965 (Hoard's Dairyman)

33. Multiple Choice: At what age does exercise do the most to build bone strength: preteen to teen years, early adulthood, during 40s or during 50s?

Preteen to teen (Hoard's Dairyman)

34. The Food and Drug Administration allows a limited amount of MPC to be used in starter cultures for standard cheeses, such as cheddar and mozzarella. What does MPC stand for?

Milk protein concentrates (Dairy Herd Management)

35. Grasses should generally be harvested at what stage?

Late boot to early head stage (Hoard's Dairyman)

36. What organ controls a cow's body temperature?

Hypothalamus (Hoard's Dairyman)

37. Endertoxemia is known as what disease?

Overeating (Other January 2015)

38. In what year was the first Ayrshire show sponsored by the Highland Agricultural Society?

1786 (Ayrshire 2015)

39. What simple household ingredient can help with urea poisoning? It changes the rumen environment and neutralizes the urea.

Vinegar (Hoard's Dairyman)

40. Many trials have shown that biotin improves what in dairy cattle?

Hoof health (Hoard's Dairyman)

41. Which rumen compartment contains mostly liquid material and is located on the ventral or lower side of the rumen?

Ventral sac (HF Workbooks)

42. The ELISA test is commonly used to identify which disease in cattle?

Johne's (Hoard's Dairyman)

43. Calf septicemia is most likely caused when calves do not receive an adequate amount of what?

Colostrum (Hoard's Dairyman)

44. How much does the Ayrshire Breeders' Association charge for a family transfer not on the Rewards program?

\$10.00 (Ayrshire April 2015)

45. What term describes any food constituent that functions in the support of life?

Nutrient (Other January 2015)

46. Research indicates that pasture-grazed cows produce five times more CLA, than cows fed silage diets. What does CLA stand for?

Conjugated linoleic acid (Dairy Herd Management)

47. Hoof horn, like fingernails in humans, is a specialized outer layer of skin, also known as what?

Epidermis (Hoard's Dairyman)

48. Name the insect that causes the most economic damage to alfalfa in the Midwest.

Potato leafhopper (Hoard's Dairyman)

49. What element is a byproduct of overfeeding protein to heifers?

Nitrogen (Hoard's Dairyman)

50. Not all animals are good candidates for necropsy. What are the two enemies of the pathologist?

Time and temperature (Hoard's Dairyman)

51. Who is credited with being most responsible for National Dairy Shrine's beginning?

Karl Musser (Other)

52. What is the name of the irradiation process using gamma rays or electronic beams to kill any harmful bacteria?

Electronic Pasteurization (Dairy Herd Management)

53. What term describes the nitrogen compounds that make up proteins?

Amino acids (Other January 2015)

54. Name the 2014 Ayrshire Youth Scholarship winner.

Samantha Rathjen (Ayrshire 2015)

55. Which hormone do controlled internal drug devices release?

Progesterone (Hoard's Dairyman)

56. Cows can see how many degrees around themselves?

300 degrees (Hoard's Dairyman)

57. Does forestripping cows increase or decrease average unit on-time?
Decrease (Dairy Herd Management)
58. If your corn showed a v-shaped yellowing at harvest it probably ran out of what?
Nitrogen (Dairy Herd Management)
59. When flame singeing, the air holes should be sealed and what color should the flame be?
Red (Hoard's Dairyman)
60. To get the most out of your market cows where is the preferred site for muscle injections?
Neck (Hoard's Dairyman)
61. Multiple Choice: Harvesting corn at the right moisture and particle size is crucial. Which should determine when you start to chop corn silage: plant moisture or kernel milkline?
Plant moisture (Hoard's Dairyman)
62. What is phase feeding?
Grouping cows according to their stage of lactation/production (HF Workbooks)
63. Is the percentage of true protein higher or lower than total protein?
Lower (6% less) (Hoard's Dairyman)
64. The milk/wash valve in a pipeline system is a vital component of the equipment. Should valves be in the open or closed position for milking?
Open (Hoard's Dairyman)
65. True or False: Meat from cloned cattle are as safe to eat as food from conventionally bred animals.
True (Dairy Herd Management)
66. Genome is a fancy word for all of an animal's what?
DNA (Holstein Pulse)

67. Which season of the year is the incidence of twins more frequent?

Summer (Hoard's Dairyman)

68. What type of floor is better for a milk holding area: sloped or flat?

Sloped (Hoard's Dairyman)

69. Pneumonia is caused by a variety of bacteria and what else?

Viruses (Hoard's Dairyman)

70. Milk pipelines are cleaned by re-circulation. This type of cleaning is referred to in the dairy industry as CIP. What do the initials CIP represent?

Cleaned in Place (Hoard's Dairyman)

71. What name is given to the part of the teat that is located just above the teat cistern and acts as the milk reservoir?

Gland cistern (Dairy Herd Management)

72. How do bacterial pathogens that cause mastitis infections enter the udder?

Through the teat canal (Hoard's Dairyman)

73. Dairy is one of the most frequented perishable departments in the store. Consumers average how many trips to the dairy department per year?

30 to 40 trips (Other)

74. At what age does a dairy cow have a full set of incisors with the corners fully developed?

4.5 to 5 years old (Other)

75. Name the nation's largest dairy county based on cow numbers.

Tulare county (Hoard's Dairyman)

76. Name the 2014 Mid-Atlantic National Grand Champion Ayrshire.

SKI-PAL L G KALINA (Ayrshire November 2015, p. 10)

77. What do heifers have the most trouble releasing when they have bloat?
Gas or methane (Hoard's Dairyman)
78. What kind of bedding supports the least amount of bacteria?
Sand (Hoard's Dairyman)
79. What is the most likely source of Johne's disease?
Manure (Hoard's Dairyman)
80. A rumen magnet is a common way to treat what disease?
Hardware (Hoard's Dairyman)
81. How much does a three-generation on-line pedigree cost from the ABA?
\$4.00 (Ayrshire March 2015)
82. What is the name of the condition in a dairy cow where the shoulder separates from the side of the cow and juts out sharply at the elbow?
Wing shoulder (Other)
83. What is the name of the disease that causes a loss of oxygen and a blue tinge to the tongue of sheep, goats, deer, elk, and antelope, and can be carried by cattle?
Blue tongue (Other)
84. Most embryonic losses occur how many days after conception?
28 to 42 days (Hoard's Dairyman)
85. What term is a product of exposure to a pathogen minus the body's resistance to the level of the exposure to that pathogen?
Disease (Hoard's Dairyman)
86. What term is used to describe what it costs to transform 100 pounds of milk into cheese?
Make Allowance (Hoard's Dairyman)

87. Removing extra teats should be done to calves as young as possible and preferably under six months of age. How should the angle of the cut be made?

Head to tail so the scar will blend with the normal folds of udder (Hoard's Dairyman)

88. How does fineness of chop affect the accuracy of forage moisture testing?

The finer the chop, the more accurate the measurement (Hoard's Dairyman)

89. The use of infra-red cameras has been found to detect what well-known zoonotic disease?

Foot and mouth disease (Hoard's Dairyman)

90. Milk pasteurizers are now being used on farms to allow safe feeding of what to calves?

Waste milk (Hoard's Dairyman)

91. Name the highly contagious, viral disease causing inflammation of the upper respiratory tract.

Infectious Bovine Rhinotracheitis (IBR) (Hoard's Dairyman)

92. Is the saliva of a dairy cow considered alkaline or acidic?

Alkaline (Other)

93. Where in the body is vitamin C synthesized?

Body tissues (Other)

94. Name the two types of hearing loss.

Temporary and permanent (Hoard's Dairyman)

95. What name is given to the very firm gums of the upper jaw of a ruminant?

Dental pad (Other)

96. You are reading a dairy nutrition publication and you notice several words that end with "ase". What can you safely assume about these words?

All are enzymes (HF Workbooks)

97. What is the name of the trade group that consists of milk bottlers and cheese and ice cream makers and whose initials are IDFA?

International Dairy Foods Association (Hoard's Dairyman)

98. When hoof trimming, a measure should be taken on the front wall of the inside claw on the hind feet. How many inches should this measure be?

3 inches (Dairy Herd Management)

99. What term describes the position on cattle and horses that has been known in the past as a predictor for animal behavior and temperament? It is often referred to as a cowlick.

Hair whorl (Hoard's Dairyman)

100. Cows eat what percentage of their body weight each day?

3 to 4% of body weight (Hoard's Dairyman)