

Holstein Foundation

2018 Holstein Dairy Bowl

Practice Questions

1. What term is defined as a group of cows?

Herd (Hoard's Dairyman April 2016, p. 256)

2. What is the single biggest expense when it comes to producing milk?

Feed (Hoard's Dairyman 2017)

3. On the average dairy farm, what is the second largest use of electricity, consuming twenty percent of electricity used on-farm?

Lighting (Hoard's Dairyman December 2015, p. 792)

4. The sperm cell carrying the Y chromosome will produce what gendered calf?

Male (Other 2017)

5. Lower genetic merit animals that carry fertilized embryos from donor dams are known as what?

Recipients (Hoard's Dairyman April 2014, p. 316)

6. What is the most common item used to bring in fresh air, while removing moisture, dust and gases in warm weather?

Fan (Hoard's Dairyman May 2015, p. 384)

7. What is the most commonly used form of heat detection amongst dairy producers?

Visual observation (Hoard's Dairyman October 2013, p. 652)

8. What country has the most head of cattle?

India (Other)

9. Monitoring wind speed and the temperature ,in the winter, are important in regards to fresh cows teat health, as these cows have more or less blood flow to the udder?

Less blood flow (Dairy Herd Management December 2015, p. 10)

10. How many inches of long straw should be placed on top of clay, sand or the concrete base of an individually bedded calving pen?

6 inches (Hoard's Dairyman May 2015, p. 336)

11. How long after a cow calves does it take for her to consume what she is fully capable of eating?

1 month (Hoard's Dairyman May 2016, p. 316)

12. What term describes an animal that does not naturally have horns?

Polled (Other)

13. A cow's body temperature often peaks at what time of day, during hot weather?

Midnight (Hoard's Dairyman December 2016, p. 762)

14. What are the two primary purposes of forestripping prior to unit attachment?

Detection of abnormal milk and stimulation (Hoard's Dairyman December 2013, p. 823)

15. Fan blades and housings should be cleaned how often, for optimal performance?

Once a year (Hoard's Dairyman May 2015, p. 368)

16. The area an animal does not want any foreign objects entering, is commonly known as what?

Flight zone (Other)

17. Rows of white plastic bags filled with silage are a result of using what piece of equipment?

Ag-bagger or silage-bagger (Hoard's Dairyman May 2014, p. 380)

18. How many pounds of dry matter must a Holstein cow eat to meet its maintenance requirements?

10 pounds (Hoard's Dairyman December 2013, p. 822)

19. What type of mastitis is the primary reason antibiotics are administered to dairy cows?

Clinical mastitis (Hoard's Dairyman May 2014, p. 382)

20. What chemical is used to keep semen frozen in the semen tank?

Liquid nitrogen (Other)

21. What term refers to the process of removing low performing animals from the herd?

Culling (Other 2017)

22. The cow's digestive tract consists of her mouth, stomach compartments, small intestine, large intestine and what else?

Esophagus (Hoard's Dairyman September 2013, p. 620)

23. Drinking water satisfies what percent of a dairy cow's total water needs?

80 - 90% (Hoard's Dairyman September 2014, p. 568)

24. If you want to keep your milking system operating at peak performance, what is the most important thing to do?

Have regular scheduled maintenance (Progressive Dairyman May 2016, p. 47)

25. According to the Dairy Calf & Heifer Association a 90-pound calf should receive how many quarts of colostrum in the first four hours of life?

4 quarts (Progressive Dairyman May 2015)

26. What is the undisputed king of cheese in the U.S.?

Mozzarella (Hoard's Dairyman December 2016)

27. It is recommended that calves should wear calf jackets when the temperature drops below what degree Fahrenheit?

40° F (Dairy Herd Management January 2015, p. 20)

28. What is the average length for gestation of a dairy cow?

282 +/- 5 (Other)

29. What is the most common indication of clinical mastitis?

Abnormally appearing milk (Hoard's Dairyman April 2015, p. 295)

30. In order to reduce the incidence of milk fever cows are often injected with a hormonal form of what vitamin before calving?

Vitamin D (Hoard's Dairyman 2014)

31. What is considered the heart of the milking system?

Vacuum pump (Hoard's Dairyman December 2013, p. 823)

32. The formation of dangerous silo gases peaks how soon after filling a silo?

1 to 2 days (Hoard's Dairyman December 2013, p. 823)

33. For a healthy diet, how many daily servings of dairy are recommended for milk, cheese and yogurt?

Three (Progressive Dairyman March 2016, p. 21)

34. In order to prevent hock lesions, which is the best bedding material to use?

Sand (Hoard's Dairyman February 2014, p. 83)

35. According to data from retail tracker, what restaurant chain is the most visited in the United States?

McDonald's (Hoard's Dairyman October 2016, p. 625)

36. What disease is a result from a cow ingesting metal?

Hardware (Other)

37. Corn silage provides cows with two of the three things they most need in a diet. What nutrient does corn silage lack?

Protein (Hoard's Dairyman November 2015, p. 792)

38. What is considered the universal standard criteria for breeding dairy heifers?

Body weight (Hoard's Dairyman September 2014, p. 569)

39. As the cow's lactation begins, subclinical hypocalcemia usually occurs how many hours after calving?

24 to 72 hours (Progressive Dairyman May 2015)

40. According to USDA, what feeding tool is the most common mode to deliver colostrum?

Bottle (Hoard's Dairyman December 2016, p. 762)

41. An imbalance of magnesium can result in what disease?

Grass tetany (Other 2017)

42. For most dairies, how long is the standard voluntary waiting period?

50 to 70 days post-calving (Hoard's Dairyman March 2014, p. 163)

43. When calves are born, they have high levels of carbon dioxide and low levels of what life-sustaining element in their blood?

Oxygen (Hoard's Dairyman January 2014, p. 9)

44. In the Holstein Association USA TriStar production records program, the optional programs consist of custom, deluxe and what else?

Premier (HAUSA Web Site April 2017)

45. Name the current president of National DHIA.

Kent Buttars (Other 2017)

46. What is the most widely fed forage in a dairy cow's ration?

Corn Silage (Hoard's Dairyman May 2015, p. 367)

47. Which condition is a result of the fetal membranes remaining within the uterus for an extended period of time after calving?

Retained Placenta or retained fetal membranes (Hoard's Dairyman 2014)

48. Which state was the first to host a state association Holstein show separate from a state fair?

Utah (Richmond Black and White Show (Progress of the Breed 1985)

49. What is the average duration a cow in heat will stand to be mounted?

4 to 6 seconds (Hoard's Dairyman 2015)

50. What type of haylage is a staple in the diets of high-producing dairy cows across the nation due to its significant contributions of crude protein and effective fiber in most TMRs?

Alfalfa haylage (Progressive Dairyman May 2015)

51. What dairy breed is the leader in Cheese Merit dollars?

Holstein (HP Spring 2017)

52. On the Dairy Cow Unified Scorecard what is defined as adequate constitution with front legs straight, wide apart and squarely placed?

Front end (Hoard's Dairyman 2017)

53. Dry cows drink how many gallons of water per day?

20 to 30 gallons (Hoard's Dairyman April 2014, p. 295)

54. What term is used to describe when cattle are moved from pasture to pasture to have more forage?

Rotational grazing (Other 2017)

55. To improve quality of corn silage the final moisture content should typically be what percent?

65 to 68% (Hoard's Dairyman May 2016, p. 317)

56. What hormone is injected into cattle to cause superovulation?

Follicle Stimulating Hormone (Hoard's Dairyman 2014)

57. In what city was the 2016 World Championship Cheese Contest held?

Madison, WI (Other April 2016, p. 2)

58. Some states have focused efforts on retrofitting tractors with devices to improve farm safety. In regards to farm safety what does ROPS stand for?

Roll Over Protection Structures (Hoard's Dairyman October 2013, p. 655)

59. What type of hay are tedders recommended for?

Grass hay (Progressive Dairyman May 2015)

60. A cow with a zero breeding value for any trait is considered what for that trait when compared to the U.S. cow population?

Average (Dairy Herd Management January 2015, p. 19)

61. In simple terms, what organization is the professional association for cow veterinarians?

American Association of Bovine Practitioners (AABP) (Dairy Herd Management December 2014, p. 46)

62. What is the most popular flavor of ice cream amongst Americans?

Vanilla (Hoard's Dairyman October 2013, p. 650)

63. Producers should begin breeding dairy heifers at what percent of mature body weight?

55 to 60% (Hoard's Dairyman December 2016, p. 763)

64. What is defined as the three weeks prior to and post calving?

Transition period (Hoard's Dairyman September 2014, p. 568)

65. What is the unit of measurement used when injecting vaccine in dairy cattle?

CC's or milliliters (Other)

66. Applying teat disinfectant immediately following teat cup removal is part of the recommended control program by NMC. What does NMC stand for?

National Mastitis Council (Dairy Herd Management March 2014, p. 14)

67. New food labeling requirements will be implemented on food packages by July of what year for manufacturers with over \$10 million in sales?

2018 (Hoard's Dairyman July 2016)

68. A Pennsylvania dairy has eliminated what illness in calves by adding apple cider vinegar to each calf's milk bottle twice a day?

SCOURS (Progressive Dairyman March 2016)

69. Two of the most important ration components in minimizing fresh cows' negative energy balance are fiber and what else?

Starch (Hoard's Dairyman January 2015, p. 9)

70. What kind of organism is foot and mouth disease caused by?

Virus (Hoard's Dairyman October 2013, p. 710)

71. What is the most visible animal well-being problem in dairying today?

Lameness (Hoard's Dairyman September 2013, p. 569)

72. Stand density and what other factor of corn stand are the largest influencers of corn yield?

Uniformity (Hoard's Dairyman December 2013, p. 823)

73. Which stomach compartment secretes a gastric juice that contains hydrochloric acid?

Abomasum (HF Workbooks February 2014)

74. What value is used to rank a cow based on her ability to transmit a balance of PTAP, PTAF, PTAT, udder, feet and legs, productive life, and somatic cell score?

CTPI (Cow Total Performance Index) (GTPI also acceptable) (HF Workbooks 2016)

75. What organization has as its primary objective: to maintain a historical record of outstanding breeding herds and to promote the advancement of the dairy industry?

National Dairy Shrine (Progress of the Breed 1985)

76. Why do newborn calves require colostrum?

Helps build the calf's immune system or Antibodies (Hoard's Dairyman 2016)

77. During the ensiling process, what specific forage crop has the greatest buffer capacity?

Alfalfa or clovers (Hoard's Dairyman 2015)

78. What non-profit organization founded in 1915 funded through the national dairy checkoff program continues to be, committed to providing science-based education about the nutrition and health benefits that dairy foods provide?

National Dairy Council (Hoard's Dairyman May 2016)

79. What energy source do bacteria use to produce acid for silage fermentation?

Sugar (carbohydrates) (Hoard's Dairyman 2015)

80. When temperatures fall below 15 degrees Fahrenheit, a cow must consume how many pounds of dry matter to meet its maintenance requirements?

2 to 3 pounds (Hoard's Dairyman December 2014, p. 796)

81. Once a straw of semen has been thawed it should be used to inseminate a cow within how many minutes?

10 to 15 minutes (Dairy Herd Management 2015)

82. What does a cryoscope measure, to determine if water has been added to milk?
Freezing point of milk (Hoard's Dairyman 2015)

83. What term is used to describe substances that have low pH values?
Acidic (Hoard's Dairyman 2015)

84. Potassium is an important mineral in dry cow nutrition due to its role in the risk of what disease?
Milk fever (Hoard's Dairyman December 2014, p. 796)

85. If you have to house mature and first-lactation cows together, you should never go over what percent stocking rate?
100% stocking rate (Dairy Herd Management May 2015, p. 14)

86. Winter weather's effect on teat tissue can be a challenge as rough teat ends are more difficult to clean. In what direction should milkers wipe each teat?
Downward, twisting motion working from farthest to nearest (DHM December 2015, p. 10)

87. Alfalfa flowers must be tripped and cross-pollinated to produce what?
Seed (Hoard's Dairyman April 2016, p. 242)

88. OSHA is now requiring that they be notified within how many hours of work related fatalities and hospitalizations?
8 hours (Dairy Herd Management December 2014, p. 16)

89. At what point during the dry period does a cow's colostrum production cease?
At the start of labor (Hoard's Dairyman December 2015, p. 793)

90. What term describes the amount of weight a calf gains per day over a period of time?
Average daily gain (Other 2015)

91. Behavioral studies in lactating cows suggest social hierarchy is usually re-established how many days after introducing new animals?

Two days (Hoard's Dairyman April 2014, p. 295)

92. Plasma or milk PAG levels can be used as an accurate indicator of a cow's pregnancy status how many days after breeding?

32 days (Hoard's Dairyman December 2015, p. 793)

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

30 to 40 trips (Dairy Herd Management December 2014, p. 35)

94. What type of shot is given under the skin for cattle?

Subcutaneous (Other 2015)

95. What is the percentage of cull cows with drug residues in meat?

1% or less (DHM June 2017)

96. Which Holstein Association USA tool allows breeders to predict the impact that inbreeding would have on potential matings.

Inbreeding Calculator (Holstein Pulse January 2015, p. 10)

97. Generally, a cow's feed intake after calving is insufficient to support the high milk production of early lactation and results in a state of what?

Negative energy balance (NEB) (Hoard's Dairyman January 2015, p. 9)

98. Water should be presented to cows approximately how many inches above the floor?

24 to 32 inches (HF Workbooks December 2015, p. 792)

99. What company operates the world's largest yogurt manufacturing plant?

Chobani LLC (Hoard's Dairyman April 2016, p. 206)

100. When removing manure from a storage pit, what typically must be done to minimize solids accumulation and create a uniform fertilizer for field application?

Agitate manure (Progressive Dairyman May 2015)

101. An internal or environmental stimulus that initiates an adaptive change in an animal is defined as what?

Animal stress (herd stress) (Dairy Herd Management 2015)

102. Which hormone used in reproductive management destroys or regresses the corpus luteum?

Prostaglandin or prostaglandin F2 alpha (Hoard's Dairyman 2015)

103. Name the 2016 recipient of the Merle Howard Outstanding Junior Award winner.

Doug Boop (World Dairy Expo October 2016)

104. A calf should have a fully developed rumen at what approximate age?

3 - 4 months (Hoard's Dairyman 2015)

105. What cell, when mature, is the largest in a dairy cow's body?

Oocyte or egg (Hoard's Dairyman 2015)

106. For optimal root development, corn should be planted at a depth of how many inches?

1.75 to 2 inches (Hoard's Dairyman April 2014, p. 244)

107. Successful businesses that depend on consistent processes for getting work done correctly and efficiently use SOPs to describe the way that each process is completed. What do the initials SOP stand for?

Standard Operating Procedure (Hoard's Dairyman 2015)

108. Oxytocin produces stimulus which causes what cells in the udder to contract and force milk out of the alveoli?

Myoepithelial (Dairy Herd Management 2015)

109. Which Holstein was the first to classify at ninety-seven points?

Linden Dictator Wimble Wimpy (Progress of the Breed 1985)

110. What is the process called where one would insert their arm into the rectum of a cow to determine pregnancy status by feeling the reproductive tract?

Palpation (Other 2015)