

Holstein Foundation

2017 Holstein Dairy Bowl

Practice Questions

1. What dairy expense is the most notable difference in costs between high-profit and low-profit organic herds?

Labor (HD 2016)

2. Animals have excellent memories for both good and bad experiences. What is the term given to a scary or negative experience called?

Fear memory (Hoard's Dairyman June 2016)

3. Too often the decision to cull is based on barn capacity, but should be based on what important factor instead?

Breakeven Milk Production - is the cow's production covering her costs (HF Workbooks December 2014, p. 784)

4. What restaurant chain set a single-day digital sales record on Super Bowl Sunday?

Pizza Hut (Hoard's Dairyman April 2016)

5. Which trait evaluation system serves as the basis of all modern dairy cattle type classification systems?

Linear type traits (Hoard's Dairyman January 2015, p. 28)

6. Excessive rates of pneumonia in dairy herds are not typically due to cold weather or drafts, but often due to what?

Inadequate ventilation (Dairy Herd Management January 2015, p. 20)

7. What organization has accepted requests from cooperatives for export assistance of 668,000 pounds of Cheddar and Monterey Jack cheese to customers in Asia and Oceania?

Cooperative Working Together (CWT) (HD 2016)

8. What is the top service provided by veterinarians to dairies according to USDA?
Emergency services (Dairy Herd Management December 2015, p. 6)
9. A dairy calf should be delivered how many minutes after the nose appears?
30 to 40 minutes (Hoard's Dairyman April 2016, p. 287)
10. Oxygen and air can penetrate how many feet into a well-managed silage face?
3 to 5 feet (HD 2016)
11. What percent of all dairy cattle hoof lesions occur in the rear limbs?
94 to 96% (Hoard's Dairyman December 2015, p. 793)
12. At what point during the dry period does a cow's colostrum production stop?
At the start of labor or calving (Hoard's Dairyman December 2015, p. 793)
13. When taking soil samples, it is recommended to take them at how many inches?
6 to 8 inches (Hoard's Dairyman March 2014, p. 172)
14. Which part of the digestive tract is responsible for reabsorbing water?
Large intestine (Other 2014)
15. When a cow is stressed, it takes how long for her heartbeat to slow down?
20 to 30 minutes (Dairy Herd Management May 2010)
16. A cow can smell up to how many miles away?
6 miles (Hoard's Dairyman April 2016)
17. On average, healthy cows ruminate for how many minutes per day?
400 to 600 minutes (Hoard's Dairyman May 2016 p. 347)
18. Confined animals are vulnerable to which two types of flies?
Stable and House Flies (Hoard's Dairyman July 2014, p. 444)

19. Milk is composed of approximately what percent lactose?
5% (Progressive Dairyman March 2015, p. 13)
20. What was the name of the first silent auction in the dairy industry?
Stars of The Silent Screen (Holstein World 2015)
21. 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)
22. Drought stressed forages often contain toxic levels of what substance?
Nitrates (Hoard's Dairyman 2010)
23. What is the name of the document that establishes the standards for Grade A milk?
Pasteurized Milk Ordinance (PMO) (VA QB Study Materials 2010)
24. To minimize teat exposure of environmental pathogens after milking, how long should cows stand before lying down?
30 minutes (Hoard's Dairyman 2010)
25. What is a teat canula used for?
To drain milk from an injured teat or to open it (Hoard's Dairyman 2010)
26. Subclinical hypocalcemia usually occurs how many hours after calving as the cow's lactation begins?
24 to 72 hours (Progressive Dairyman May 2015)
27. What is the most common name for lactic acidosis?
Founder (HF Workbooks March 2014)
28. Most cows will naturally form a mass after dry-off that blocks the teat canal and stops bacteria from entering the teat. What is this mass commonly called?
Keratin Plug (Hoard's Dairyman May 2016, p.324)

29. One reason dairy held its position in the dietary guidelines is because of poor bone health among Americans. What percent of women suffer from osteoporosis or brittle and fragile bones?

14 to 16% (Hoard's Dairyman February 2016)

30. What organization seeks applications for educational grant dollars to support unique programs that help build dairy producer professionalism and public trust in how dairy products are produced?

Professional Dairy Producers Foundation (PDPF) (HD 2016)

31. In regards to milking equipment, what do the initials RMS stand for?

Robotic Milking System (Dairy Herd Management January 2015)

32. In a mixed stand, grasses will rapidly remove which nutrient before alfalfa has a chance to use it, causing alfalfa to starve to death?

Potassium (Hoard's Dairyman January 2012, p. 24)

33. 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)

34. In free stall barns what is the best single measure of cow comfort?

Stall Use Index (Hoard's Dairyman July 2012, p. 449)

35. All youth lease applications for Holstein cows must be received by what date to be eligible for Junior recognition at national shows?

June 1 (HAUSA Web Site March 2015)

36. What university earned top honors at the 94th Collegiate Dairy Products Evaluation?

South Dakota State University (Hoard's Dairyman April 2016, p. 257)

37. A cow's udder will go through three phases after dry-off. How long does the first phase known as involution last in days?

21 to 30 days (Hoard's Dairyman December 2012, p. 823)

38. Name the first sire in the Holstein breed to have more than 10,000 registered sons - possibly the most influential sire of the breed.

Round Oak Rag Apple Elevation (Hoard's Dairyman 2010)

39. What is the third largest expense in a typical American household?

Food (behind housing and transportation) (Hoard's Dairyman April 2016, p. 257)

40. Perinatal calf mortality is a significant problem in the dairy industry. What is this problem more commonly referred to as?

Stillbirths (Hoard's Dairyman December 2012, p. 823)

41. What metabolic issue is the most common reason for down dairy cattle?

Milk fever (HD 6/16)

42. When designing a Comprehensive Nutrient Management Plan, the first step is to determine what?

Amount of waste produced (Hoard's Dairyman 2010)

43. What category of fluid milk experienced six percent growth in 2015 reaching \$1.4 billion in sales?

Flavored milk (Hoard's Dairyman 6/2016)

44. Pollination of alfalfa flowers to create seed depends on what insect?

Bee (HD 6/16)

45. What are the two most common internal parasites?

Intestinal roundworms and lungworms (Hoard's Dairyman 2010)

46. If you want to check to see if a cow already has a magnet hold what device behind the animal's left elbow and the magnet will deflect?

Compass (Hoard's Dairyman 2010)

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

Calf too large to fit pelvis of mother (Hoard's Dairyman 2010)

48. When designing housing for weaned calves, how many square feet of resting space should be provided per animal?

30 to 35 square feet (Hoard's Dairyman December 2015, p. 792)

49. What is the recovery rate of sand using a sand-manure separation system?
88 to 92% (Hoard's Dairyman 2010)
50. What is the technical term for belching?
Eructation (Other 2014)
51. Who was the 2015 recipient of the Klussendorf Trophy?
Lorne Ella (World Dairy Expo October 2015)
52. Lineage can now be recorded on crossbred animals through the CID program developed by Holstein Association USA. What does CID stand for?
Cattle Identification Database (Hoard's Dairyman 2015)
53. What term is defined as the knowledge and skill a person has for handling livestock in an efficient, safe and low-energy way?
Stockmanship (HD 6/16)
54. What is the name of the component in a milking system that serves to remove air from a partially closed system and therefore creates a partial vacuum?
Vacuum pump (Hoard's Dairyman 2010)
55. What is the number one proven bull on the April 2016 list for udder composite?
BUTZ-BUTLER ATWOOD BRADY-ET (Red Book April 2016)
56. What is the major air pollutant emitted by dairy farms?
Ammonia (Hoard's Dairyman 2010)
57. What two departments are responsible for issuing the dietary guidelines?
Department of Health and Human Resources and United States Department of Agriculture (Progressive Dairyman February 2016, p. 79)
58. What is defined as an agriculture commodity?
Means the raw product looks the same no matter where it is produced around the world (Hoard's Dairyman February 2016, p. 111)

59. Which phase of ensiling occurs after the silage is chopped and prior to silo sealing?
Aerobic phase (Hoard's Dairyman April 2016, p. 302)
60. What is the name of the nation's first certified organic fast-food restaurant?
Organic Coup (Hoard's Dairyman December 2015)
61. Beginning in 2017, the Herds of Excellence classification criteria will be based on what?
Age-adjusted classification score (Holstein Pulse April 2016, p. 12)
62. Cattle housing buildings should be oriented in what direction to minimize the sun exposure inside the building and to help keep cows cool?
East to west (Hoard's Dairyman May 2016, p. 368)
63. 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)
64. In order to disinfect the spread of foot and mouth disease from clothing, it is recommended that you mix five tablespoons of what with water?
Household bleach (Hoard's Dairyman 2010)
65. What do we call the net income after operating expenses?
Return of Equity (ROE) or Return on Investment (ROI) (Hoard's Dairyman August 2015)
66. Name the chairman of the House Agriculture Committee.
K. Michael Conaway (Hoard's Dairyman May 2016, p. 4)
67. Even when there are no clinical signs, a cow's milk production begins to decline when its somatic cell count is greater than how many cell/mL?
100,000 cell/mL (Hoard's Dairyman December 2015, p. 793)
68. Name of the yogurt manufacturer that pledges by 2018 to no longer accept milk from cows fed grains from genetically modified organisms.
Dannon (Hoard's Dairyman 2016)

69. The second “Scoops of Thanks Day,” was held by what restaurant with over \$56,000 raised for agricultural education?

Culver’s (HD 6/16)

70. How many inches of lunging space does a large cow require to rise with reasonable comfort?

30 to 40 inches (Hoard's Dairyman 2010)

71. Name the 2016 Young Dairy Leaders Institute Distinguished Alumni Leader.

Michele Ruby (HF Web Site January 2016)

72. Gypsum, recycled from drywall and construction waste, has advantages as a bedding source. Unfortunately, agitation of manure containing gypsum releases dangerous levels of what gas and poses a threat to humans and animals?

Hydrogen sulfide (Hoard's Dairyman March 2016, p. 154)

73. What is the process called that consists of compressing rectangular hay bales to about one third of their original volume? This process makes shipping and handling of hay easier and less costly.

Densifying or cubing (Hoard's Dairyman 2010)

74. What is the purpose of dry cow therapy?

Reduce the occurrence of intramammary infections at dry-off or prevent infection during dry period (HD 6/16 p.388)

75. What trace mineral is found in very low levels in all forages and is necessary for a number of body functions and disease resistance as well as being an essential constituent of blood?

Cooper (Progressive Dairyman May 2016, p. 98)

76. Irradiation of ground beef can boost shelf life to how many days?

30 to 40 days (Hoard's Dairyman 2010)

77. What term ties a product to a specific region or country?

Geographical indicators (Hoard's Dairyman December 2014, p. 797)

78. Name the inventor that discovered that heating beer, wine and milk to a particular temperature could kill most bacteria that cause spoilage, thus preventing these beverages from turning sour.

Louis Pasteur (Dairy Herd Management January 2016, p. 25)

79. The fee for recording a Holstein transfer shall be how much within 30 days of sale?

\$10.00 (HAUSA Web Site October 2016)

80. While milk and dairy foods have slipped away from healthy eating in some schools, what movement has helped make dairy a priority again? It is based on research from Cornell Center for Behavior Economics in Child Nutrition Programs.

Smarter Lunchrooms Movement (HD 6/16 p.389)

81. What can dandelions in alfalfa indicate?

Poor stand (Hoard's Dairyman 2010)

82. For pregnancy confirmation, ultrasound users should be wary of any tests done before how many days of gestation?

30 days (HD 6/16 p.388)

83. Upon ruminal degradation, the microbes release fuels that cows can then utilize for energy. These fuels are known as what?

Volatile fatty acids (Hoard's Dairyman May 2016, p. 317)

84. What is the name given to a rupture at the point of the pedal bone?

Toe ulcer (Dairy Herd Management 2010)

85. The USDEC has ten international offices that serve as the organization's eyes and ears in foreign markets to identify opportunities, chart the business climate and monitor regulatory activity. What does USDEC stand for?

U.S. Dairy Export Council (Progressive Dairyman March 2016, p. 7)

86. Today's college students, representing Generation Z, are paying close attention to their beverage choices. According to a survey done by Beverage Marketing Corp. students said their drink purchases are mostly influenced by what health benefit?

All natural (52%) (HD 6/16)

87. What are the primary sources of exposure to environmental pathogens that cause mastitis in cows?

Moisture and manure (Hoard's Dairyman December 2013, p. 823)

88 Fans can be divided into two distinct classifications. One is exhaust ventilation. What is the other?

Circulating ventilation (Hoard's Dairyman May 2016, p. 354)

89. In regards to stall design what is a cow's imprint length?

The space a cow occupies when she is lying down – the space from her knee to her tail (Hoard's Dairyman April 2015, p. 370)

90. What term defines the age-related loss of muscle mass and strength?

Sarcopenia (Dairy Herd Management September 2015, p. 6)

91. What is the name for the place where the rear udder attachment joins the udder?

Escutcheon (Hoard's Dairyman 2010)

92. Who is considered the "Father of Modern Dairying"?

William Dempster (W.D.) Hoard (Hoard's Dairyman February 2011)

93. Dairy facilities are generally wet, and that can complicate electrical wiring. What do the initials UF stand for in regards to wiring?

Underground Feeder Cable (Dairy Herd Management 2010)

94. Hearing protection is recommended when someone is exposed to noises at or above how many decibels for a prolonged period of time?

85 decibels (Hoard's Dairyman August 2015, p. 544)

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

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

96. Digestive fermentation of fibrous feeds produces what?

Methane (HD 6/16 p.392)

97. The consumption of what dairy product was correlated with a reduced risk of high blood pressure?

Yogurt (HD 6/16)

98. What Holstein herd, used in this year's judging contest, was featured on the cover of *Hoard's Dairyman*?

Jeffrey-Way Farms, Jeff and Kate Hendrickson (Hoard's Dairyman April 2016, p. 238)

99. Researchers in the Department of Food Science have found that exposure to what kind of light for even a few hours degrades the perceived quality of fluid milk more so than the microbial content that naturally accumulates over time?

Light-emitting diode (LED) (HD 6/16)

100. In reference to farm employees, what do the letters NIOSH stand for?

National Institute for Occupational Safety and Health (Hoard's Dairyman 2010)

101. Vitamin D and what other nutrient will be added to FDA's updated Nutrition Facts Panel as they have joined calcium and iron as under-consumed nutrients in American diets?

Potassium (Hoard's Dairyman June 2016)

102. What term describes the physical condition of soil particles, moisture level, drainage and biological activity?

Tilth (Hoard's Dairyman December 2014, p. 797)

103. What is the name of the newest addition to the *Hoard's Dairyman* bookstore that sheds light on organic dairy health care?

Practical Organic Dairy Farming (HD 2016)

104. Whole-plant corn silage is typically harvested by cutting the stalk right above what part of the plant?

The first node (Hoard's Dairyman May 2015, p. 367)

105. Name the two most dangerous lethal gases that may accumulate in an upright silo and can easily be recognized by their irritating odor and color.

Nitrogen Dioxide and nitrogen tetroxide (Hoard's Dairyman 2010)