

**HOLSTEIN FOUNDATION
AYRSHIRE QUIZ BOWL
2019 PRACTICE QUESTIONS**

1. Feeding proper rations during the summer is important for both cow comfort and maintaining milk production. Which nutrient is most important during the summer months?

Water (HF Workbooks)

2. Which breed of dairy cattle has the lowest percentage of inbreeding?

Holstein (HAUSA Web Site)

3. How many stalls are there in a double-8 herringbone parlor?

16 stalls (Dairy Herd Management)

4. What is the name for the highest daily production attained by a cow during her lactation?

Peak milk production (Dairy Herd Management)

5. What age group of cattle is most susceptible to ringworm?

Young animals (calves and heifers) (Hoard's Dairyman)

6. In looking at a pedigree, information about the sire is shown on the top half or bottom half of the pedigree?

Top half (HF Workbooks)

7. A second or later lactation cow produces half of her total lactation production in approximately how many days, after calving?

120 days (+/-10) (Hoard's Dairyman)

8. Which dairy breed's milk has the highest butterfat percentage on average?

Jersey (Hoard's Dairyman)

9. What season of the year are the incidences of retained placentas and metritis the highest?

Summer (Hoard's Dairyman)

10. Do older or younger cows have a higher incidence of cysts?

Older (Holstein Pulse)

11. Body energy and nutrient reserves can be replenished with most ease during which stage of lactation?

Late lactation (Hoard's Dairyman)

12. In dairy judging, what term describes the number value given to the difficulty in placing a pair?

Cut (s) (HF Workbooks)

13. What term is used to describe forages that are seeded every year, and whose growth is completed in one crop year?

Annuals (Hoard's Dairyman)

14. In a feeding program, what do the initials TMR stand for?

Total Mixed Ration (Hoard's Dairyman)

15. What is known as the golden standard for free stall base and bedding?

Sand (Hoard's Dairyman)

16. What feed additive is used to improve taste and reduce dustiness?

Molasses (VA QB Study Materials)

17. Name the 2017-2018 Ayrshire Princess.

Kourtney Kempkes (Ayrshire)

18. What will improve alfalfa yields on acid soils more than any other single management practice?

Liming (Hoard's Dairyman)

19. What structures carry the blood from the body back to the heart?

Veins (HF Workbooks)

20. What is the single best indicator for heat detection?

Standing heat (Hoard's Dairyman)

21. When does a dairy cow have the highest demand for water?

After milking or feeding (Hoard's Dairyman)

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

Follicle Stimulating Hormone (Hoard's Dairyman)

23. How much is the rush fee for Ayrshire registration/transfer processing?

\$35 (Ayrshire)

24. What blood condition is often caused by lice?

Anemia (Hoard's Dairyman)

25. The average cow's udder floor is how many inches above the point of the hock?

Two inches (HAUSA Web Site)

26. On the average, within 3 days, how long is the cows estrus cycle?

21 days (18-24 acceptable) (Hoard's Dairyman)

27. Where specifically were the first importations of Ayrshires in the United States?

Windsor, CT (Ayrshire)

28. What part of a cow's stomach is most like a human's stomach?

Abomasum (Hoard's Dairyman)

29. What disease in humans is a weakening of the bones through loss of calcium and other minerals?

Osteoporosis (Hoard's Dairyman)

30. What percent of the decomposition of manure is the biogas methane?

60 to 80 percent (Hoard's Dairyman)

31. How can people get infected with tuberculosis?

Drinking unpasteurized milk from infected cows or contaminated water (Hoard's Dairyman)

32. To reduce heat stress and maintain milk production, summer feed rations should include a high or low percentage of concentrates and a high or low level of fiber?

High concentrates, low fiber (Hoard's Dairyman)

33. What dairy product is hailed as the flat-belly food?

Yogurt (Dairy Herd Management)

34. What term describes the duration of light that an animal is exposed to in a day?

Photoperiod (Hoard's Dairyman)

35. One criteria used to measure the quality of feedstuffs is percent TDN. What do the initials TDN stand for?

Total Digestible Nutrients (Hoard's Dairyman)

36. Most animals, including cows and humans, have how many genes for each trait?

Two genes (Hoard's Dairyman)

37. If a cow has an interdigital foot infection, where is it located?

Between the toes (Dairy Herd Management)

38. What one single factor affects the packing performance and densities of bunker silos?

Axle weight (Hoard's Dairyman)

39. What dairy product is one of the world's best sources of fat in the diet as it requires no hydrogenation, addition of chemicals or alteration?

Cream (Hoard's Dairyman)

40. In a feeding program, what do the initials NPN stand for?

Nonprotein Nitrogen (Hoard's Dairyman)

41. Most farmers try to harvest first-cut alfalfa when it is in what stage?

Late-bud stage (Hoard's Dairyman)

42. What is the major protein in milk called?

Casein (Hoard's Dairyman)

43. Pasteurella pneumonia is more commonly known as what?
Shipping fever (Hoard's Dairyman)
44. Cows can produce how many gallons of moisture per day by respiration alone?
4 to 6 gallons (Hoard's Dairyman)
45. At what Fahrenheit temperature should your refrigerator be set at to store medicines?
35 to 46 degrees F (Dairy Herd Management)
46. Soybeans contain what percent protein?
34 to 40% (Hoard's Dairyman)
47. What energy source do bacteria use to produce acid for silage fermentation?
Sugar (carbohydrates) (Hoard's Dairyman)
48. What product is applied to forages to minimize shrink, enhance aerobic stability of silage and preserve forage quality?
Inoculants (Hoard's Dairyman)
49. Not all cows that look healthy are healthy. In many cases, fevers develop how many hours before other clinical signs of common fresh-cow problems?
24 to 36 hours (Dairy Herd Management)
50. Researchers have found that injecting cattle with what Vitamin A precursor can reduce the chance of those cows having retained placentas?
Beta-carotene (Hoard's Dairyman)

52. The CPI formula places the most emphasis on which trait?

Protein (Ayrshire)

53. In what year were the first importations of Ayrshire cattle made in the United States?

1822 (Ayrshire)

54. What is uterine dropsy?

A fluid build-up in the uterus (Hoard's Dairyman)

55. If you are sampling forage from a bunker that is ten feet high, how close can you safely stand next to it?

6 feet (Hoard's Dairyman)

56. In what gland is bST naturally produced by the cow?

Pituitary gland (Hoard's Dairyman)

57. In a milking system, what term is used to indicate the time the inflation is expanded compared to the time it is collapsed?

Pulsation ratio (Hoard's Dairyman)

58. In dairy cattle reproduction, what do the letters A.I. stand for?

Artificial Insemination (Hoard's Dairyman)

59. Research has indicated that supplementing what vitamin in the diet of dairy cows significantly aids in fighting disease?

Vitamin E (Hoard's Dairyman)

60. How many teeth does a cow have on the front of the upper jaw?
None (dental pad) (Other)
61. What does the word gestation mean?
Time mother carries young (calf) (Hoard's Dairyman)
62. Tattoos should be placed in this ear, as the other ear is used for vaccination
Left ear (Ayrshire)
63. What step in the milking preparation routine starts the release of oxytocin?
Forestripping (Hoard's Dairyman)
64. When cutting alfalfa for dry hay what time of day results in the best forage quality?
Late afternoon (Dairy Herd Management)
65. If an animal was classified at two dash zero two (2-02), how old in months was the animal?
26 months (HAUSA Web Site)
66. On what day must a heifer be born to be the oldest possible animal in the winter yearling class?
December 1 (HAUSA Web Site)
67. Does butter have: less, more, or the same number of calories as margarine?
Same (Hoard's Dairyman)
68. Each straw of semen should be thawed for a minimum of how many seconds?
30 seconds (Dairy Herd Management)

69. What accounts for the greatest percent of milk production costs on most dairy farms?

Feed (Hoard's Dairyman)

70. The afterbirth normally should be expelled within how many hours after a cow calves?

2 to 6 hours (Hoard's Dairyman)

71. What nutrient is important for growth of an animal as well as for milk production? Good alfalfa hay is usually the least expensive source of it.

Protein (Hoard's Dairyman)

72. What nutrient in milk may help reduce the incidence of osteoporosis?

Calcium (Hoard's Dairyman)

73. What is often the first warning sign of a cow becoming sick?

Fever (Dairy Herd Management)

74. All cheese should be stored at what Fahrenheit temperature?

35 to 45 degrees F (Hoard's Dairyman)

75. Name the dairy cooperative with the most member farms.

Dairy Farmers of America (Hoard's Dairyman)

76. Cows reach their maximum feed intake at how many weeks after calving?

9 to 14 weeks (Hoard's Dairyman)

77. Technology now allows veterinarians to detect whether a cow is pregnant at 25 days into gestation using what mechanical device?

Ultrasound (Dairy Herd Management)

78. What is the main expense of raising calves?

Labor (Hoard's Dairyman)

79. On average, when do most producers wean calves?

6-8 weeks old (Holstein Pulse)

80. Potassium is an important mineral in dry cow nutrition due to its role in the risk of what disease?

Milk fever (Hoard's Dairyman)

81. What causes mold and spoilage of silage?

Oxygen (Hoard's Dairyman)

82. How many gallons of water can a cow drink per minute?

3 to 5 gallons (Hoard's Dairyman)

83. What type of blood cells help cows fight infections?

White blood cells (Dairy Herd Management)

84. Class IV milk is sold to be used as what during processing?

Butter (Hoard's Dairyman)

85. Where is the streak canal located on a cow?

Her teat (Hoard's Dairyman)

86. What feedstuff is a by-product of ethanol production?
Distillers grains (Hoard's Dairyman)
87. What is subclinical mastitis?
Infection of udder that is not visible (Hoard's Dairyman)
88. Which disease stopped the importation of cattle from Europe in 1905?
Hoof and mouth disease (Progress of the Breed)
89. Which stomach compartment has dorsal, ventral and posterior sacs?
Rumen (HF Workbooks)
90. Cows spend what percent of their day drowsing or in a quiet wakefulness?
31 to 35% (Hoard's Dairyman)
91. Australian mastitis remedies contain a special ingredient that serves as a marker to indicate whether milk from treated cows contains drug residues. What is this ingredient?
Blue dye (Hoard's Dairyman)
92. As the level of fatty acids in the blood increase, what happens to the absorption of fatty acids in the liver?
Increases (Hoard's Dairyman)
93. According to the Dairy Cow Unified Scorecard, how many points are allotted for Rear Feet and Legs?
20 points (PDCA)

94. Which class of nutrients has the most energy per pound: fats, carbohydrates or protein?

Fats (Hoard's Dairyman)

95. In reproduction, what time frame does days open refer to?

Number of days from calving to conception (Hoard's Dairyman)

96. Research has shown that supplementing dry cow rations with anionic salts may be an effective method of preventing milk fever. What type of electrical charge does an anion have?

Negative charge (Hoard's Dairyman)

97. The Charm II, gas chromatography and the Signal are tests used to determine levels of what in milk?

Antibiotic levels (Hoard's Dairyman)

98. Which basic nutrient group provides the cow's major source of energy?

Carbohydrates (HF Workbooks)

99. When scouring, what is the greatest danger to the animal?

Dehydration (Hoard's Dairyman)

100. What is the most common type of ovarian cyst?

Follicular (Hoard's Dairyman)

101. What lameness problem is defined by early lesions showing a soft area at the sole-heel meeting and is painful when pressure is applied?

Sole ulcer (Hoard's Dairyman)

102. In regard to feed, what do the initials TLC stand for?

Theoretical Length of Cut (Hoard's Dairyman)

103. Which B vitamin is often recommended as a feed additive to minimize the occurrence of fatty liver and Ketosis in fresh cows?

Niacin (Hoard's Dairyman)

104. What do dandelions in alfalfa indicate?

Poor stand (Hoard's Dairyman)

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

Myoepithelial (Dairy Herd Management)

106. Name the virus that causes small blisters on the teats followed by sores and scabs and is spread by the milker.

Cow pox (Hoard's Dairyman)

107. What vitamin can be injected or fed to cows to reduce the susceptibility to ringworm?

Vitamin A (Hoard's Dairyman)

108. What vitamin is needed so the blood can clot after an injury?

Vitamin K (Hoard's Dairyman)

109. What is the biggest problem during milking machine attachment?

Letting in too much air (Hoard's Dairyman)