

HOLSTEIN FOUNDATION
2011 AYRSHIRE QUIZ BOWL PRACTICE QUESTIONS

1 On the average, within 3 days, how long is a cow's estrus cycle?

21 days (18 -24 acceptable) (HD 10)

2 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 (POB)

3 What is the average weight of a mature Ayrshire cow?

1,200 pounds (WEB)

4 Animal height measurements are generally measured from the ground to what body part?

Highest point of the withers (HD 10)

5 How many chambers are found in the heart of the cow?

4 chambers (ANAT 10)

6 Diarrhea is one of the most common diseases during the first how many days of life?

10-14 days (HD 10)

7 How much water does an average dairy cow consume per day?

30 to 50 gallons (HD 10)

8 What is the first selection tool that consumers use when purchasing cheese?

Flavor (HD 10)

9 What are animals born without horn buttons or horns called?

Polled (HD 10)

10 How much does it cost to DNA test an Ayrshire female?

\$45.00 (AD 10)

11 What part of the alfalfa plant has the highest percent digestibility?

Leaves (HD 10)

12 The esophageal groove functions for how many weeks in milk fed calves?

12 weeks (10-14 weeks) (ANAT 10)

13 What udder condition appears as swelling due to an excessive accumulation of fluids between the cells of the mammary gland tissue just under the skin? It is very common around calving.

Edema (DHM 10)

14 Gestation, or pregnancy duration, normally lasts approximately how many days?

280 (270 to 290) (AIM 10)

15 What is a mature bovine male called?

Bull (HD 10)

16 What is the standard interval to which lactation records for dairy cows are adjusted?

305 days (ADSA 10)

17 On what day must a heifer be born to be the oldest possible animal in the fall heifer calf and fall yearling heifer classes?

September 1 (HA 10)

18 What organ supports and protects the embryo as it develops and grows into a calf?

Uterus (AIM 10)

19 What is the largest component of milk?

Water (HD 10)

20 The sex of a calf is determined by which parent?

Father (sperm) (HD 10)

21 In general terms, what are the chemical messengers, which control a cow's estrus cycle?

Hormones (HD 10)

22 Name the 2009 Mid-Atlantic National Grand Champion.

Val D'Estrie Special K Lolly (AD 09)

23 Which organization developed the Unified Dairy Cow Score Card for judging dairy cattle?

Purebred Dairy Cattle Association (HD 10)

24 What breed of dairy cows has the undesirable recessive called Weavers?

Brown Swiss (HD 10)

25 In the reproductive tract of a cow, how many uterine horns are there?

Two (HD 10)

26 In what country did the Ayrshire breed originate?

Scotland (WEB)

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

Number of days from calving to conception (HD 10)

28 How many chromosomes does a cattle embryo have?

60 (or 30 pairs) (HD 10)

29 A gallon of milk weighs how many pounds?

8.6 pounds (VT 10)

30 In which stomach compartment traps ingested metal?

Reticulum (NUT 10)

31 What color is nitric oxide?

Colorless (HD 10)

32 What Fahrenheit temperature is the most desired for milk in the farm bulk tank?

38 degrees F (HD 10)

33 How long after birth before calves begin to produce their own immunity?

6-8 weeks (HD 10)

34 What is the name of the dairy check-off-funded program aimed at countering America's calcium crisis and increasing dairy consumption?

3-Every-Day (DMI 10)

35 What is the most costly disease affecting the dairy industry?

Mastitis (DHM 10)

36 In the early spring, heifers on pasture have at times exhibited grass tetany. This can be corrected by supplementing with what?

Magnesium (FF 10)

37 What percent of cheese is consumed on pizza?

28% (HD 1/09)

38 Acid detergent insoluble nitrogen is an index of what problem, which can develop in stored forages?

Heat damage (FF 10)

39 How soon after heat ends does ovulation, or egg release occur?

10 to 14 hours (AIM 10)

40 On most farms, which type of silage storage facility offers the least cost per ton of silage stored?

Bunker (HD 10)

41 In which season of the year are lice most prevalent?

Winter (HD 10)

42 Which age group of animals has the best conception rate in a dairy breeding program?

Virgin Heifers (HD 10)

43 What is the most common health problem in dairy cattle feet?

Laminitis (HD 10)

44 Percent carbohydrate reserves in alfalfa roots are greatest during which stage of plant growth?

Full bloom (HD 10)

45 Name the 2009 Southern National Grand Champion.

Mill-Valley Rosel's Ginger (AD 09)

46 What is the single largest product from the beef carcass?

Ground beef (HD 10)

47 What is the annual fee to be on the Ayrshire Rewards Program?

\$100.00 (AD 10)

48 Purebred Ayrshires only produce what color offspring?

Red and white (AD 10)

49 What two colors appear on a slow moving vehicle sign?

Red and orange (HD 10)

50 What one housing factor increase's the cow's risk of injury?

Overcrowding (DHM 10)

51 Milk is packaged in various sizes. What is the most popular size?

1 gallon (HD 10)

52 According to the PDCA uniform scorecard for showmanship contests, how many points does exhibitor appearance account for?

10 points (PDCA 10)

53 What group of animals are the best candidates for use of sexed semen?

Heifers (HD 1/08)

54 Strain 19 is a vaccine for what disease?

Brucellosis (bangs) (HD 10)

55 In what year was chocolate milk introduced?

1919 (HD 10)

56 Calves should receive what percent of their body weight in colostrum within the first six hours after birth?

6 to 8% (ADSA 10)

57 What hormone is injected into cattle to cause superovulation?

Follicle Stimulating Hormone (FSH) (HD 10)

58 What is the genetic material found in all living organisms called?

DNA (genes, chromosomes) (HD 10)

59 What term describes small electric currents that flow through the electrical grounded-neutral system and which pass through a cow's body and adversely affect her behavior and performance?

Stray voltage (VT 10)

60 What part of a cow's stomach is most similar to a human's stomach?

Abomasum (HD 10)

61 How many incisor teeth does the adult cow have on the lower jaw?

8 (ANAT 10)

62 Which side of the cow's head should you be leading from during a show?

Left side (HD 10)

63 Name the term used to describe when the teats of a cow point out too much.

Strutting (VT 10)

64 What is the name for the short period of sexual receptivity of open cows and heifers normally occurring every 18 to 24 days?

Heat or estrus (AIM 10)

65 A cow should spend how many hours a day lying in the stall resting and "making milk"?

10 to 12 hours (HD 10)

66 What specific forage crop has the greatest buffer capacity during the ensiling process?

Alfalfa or clovers (HD 10)

67 In a feeding program, what do the initials "TMR" stand for?

Total Mixed Ration (HD 10)

68 What is the name of the structure through which the fetus receives all of its nutrients?

Placenta (ANAT 10)

69 Distillers's grain is added to a cow's ration as a source of what?

Protein (HD 10)

70 What enzyme is deficient in people who are lactose intolerant?

Lactase (HD 10)

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

Molasses (VA 10)

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

Niacin (HD 10)

73 What does it cost to become a National Ayrshire Junior Member?

\$10.00 (AD 10)

74 Each grandparent contributes what percent of an animal's genes?

25% (VA 10)

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

Liming (HD 10)

76 A feed used with another to improve nutritive balance, and intended to be further diluted and mixed to produce a supplement or a complete feed is known as a what?

Concentrate (FF 10)

77 What are the hereditary units that determine a portion of the animal's appearance, performance, behavior and other characteristics?

Genes (UG 10)

78 What term describes the milk-mineral deposit on milk handling equipment?

Milkstone (VT 10)

79 What lameness problem can be seen by swelling, foul odor, and redness between the claws? The skin may split and the affected area is very painful.

Foot rot (HD 10)

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

Late-bud stage (HD 10)

81 What is the leading cause of heifer calf deaths?

Scours (DHM 10)

82 What percent of hay silage dry matter is lost between cutting and ensiling?

2 to 8% (HD 10)

83 When during a cow's daily schedule does she have the highest demand for water?

After milking or feeding (HD 10)

84 Who is the president of Purebred Publishing?

Morey Miller (AD 10)

85 What is the highest honor given to a dairy cattle showperson in the U.S.?

Klussendorf Award (HD 10)

86 When veal calves are sent to slaughter how much do they weigh on average?

475 to 500 pounds (HD 10)

87 What term describes the thin cylinder in which frozen semen is preserved?

Straw (VT 10)

88 What organism is the major cause of calfhood scours?

E. coli (HD 10)

89 Soybean meal is commonly added to calf starters for what purpose?

Protein (HD 10)

90 Louis Pasteur is significant in the dairy industry for making what contribution?

Pasteurization (HD 10)

91 What tube-shaped organ provides passage to the cervix?

Vagina (AIM 10)

92 What is the major ligament of the udder, which divides it into left and right halves?

Median suspensory ligament (HD 10)

93 What is the recommended soil pH for growing corn?

6.0 pH (HD 10)

94 What is the procedure by which a cow is compared to the ideal for her breed?

Classification (HA 10)

95 Who is president of the Dairy Calf & Heifer Association?

Lewis Anderson (DCHA 09)

96 What is the common name given to the respiratory disease, which cattle often develop after being transported, by truck or rail?

Shipping fever (HD 10)

97 What type of blood cells help cows fight diseases or infections?

White blood cells (DHM 10)

98 What off-flavor in milk tastes bitter and soapy?

Rancid (DHM 10)

99 In what U.S. state were the first importations of Ayrshires believed to have been made?

Connecticut (AD 10)

100 When singeing udder hair, slowly pass the flame how many inches below the udder?

6 to 8 inches (HD 10)