

2010 AYRSHIRE SAMPLE 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 (NUT 09)

2 Increased consumption of soft drinks has caused a large gap in the recommended daily amount of what mineral needed by teenagers?

Calcium (HD 09)

3 Historically, during what season is the demand for milk highest?

Fall (HD 09)

4 What is the first compartment of the stomach called?

Rumen (NUT 09)

5 Information about which side of the family is shown on the bottom half of the pedigree?

Maternal side (dam or mother acceptable) (PQA)

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

10 to 12 hours (HD 08)

7 What is a newborn bovine called?

Calf (HD 09)

8 What is the most popular milking setup in the United States?

Milking parlors (HD 08)

9 How many teeth does a cow have on the front of the upper jaw?

None (dental pad) (ANAT 08)

10 On a scale of 1 to 5, with 5 being the most condition, what body condition score should a dry cow have?

3.5 to 4.0 (HD 08)

11 During the milking schedule, when should mastitis-infected cows be milked?

Last (HD 08)

12 What generally happens to a cow's body weight during the first 90 days of her lactation?

Decreases (HD 08)

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

Summer (HD 08)

14 How many pounds of whole milk does it take to produce one pound of butter?

21.2 pounds (HD 07)

15 During which stage of the dry period is the chance of udder infection the lowest?

During the middle of the dry period (HD 08)

16 At what approximate age does a calf have a fully developed rumen?

3 - 4 months (HD 09)

17 What is the major factor affecting increased somatic cell counts?

Mammary infections (HD 08)

18 What is a major problem caused by using wet sawdust as bedding for cows?

Mastitis (HD 08)

19 Each sperm or egg cell contains what sample portion or percentage of the genes in the bull's or dam's cells?

50% (HD 08)

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

Total Mixed Ration (HD 09)

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

Peak milk production (DHM 09)

22 Cows produce methane gas. They burp frequently to release the gas from the rumen during normal digestion. If the burping or eructation mechanism becomes paralyzed, gas is trapped, and the cow then becomes what?

Bloated (HD 08)

23 True or False: Once a cow is infected with Neospora she remains infected for life?

True (HD 2/08)

24 Is simply covering animal mortalities in manure considered composting?

No (HD 07)

25 What happens to a cow's milk production as her somatic cell count increases?

Production decreases (HD 08)

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

Antibiotic levels (HD 08)

27 Injecting cows with a hormonal form of what vitamin before calving may reduce the incidence of milk fever?

Vitamin D (HD 08)

28 In regards to production testing, what do the initials DHIA stand for?

Dairy Herd Improvement Association (HD 08)

29 How many stalls are there in a double-12 herringbone parlor?

24 (DHM 08)

30 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 08)

31 What does a cryoscope measure to determine if water has been added to milk?

Freezing point of milk (HD 08)

32 A heifer is born twin to a bull. When can she become registered?

When it can be proven she is a breeder (HA 08)

33 When posing a cow in a show, how should the rear legs be set?

One closest to the judge slightly forward (HD 08)

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

Calcium (HD 08)

35 What is the common name for infectious keratoconjunctivitis (care-a-toe-con-junk-tiv-i-tis)?

Pinkeye (DHM 08)

36 Each straw of semen should be thawed for a minimum of how many seconds?

30 seconds (DHM 08)

37 How can people get infected with tuberculosis?

Drinking unpasteurized milk from infected cows or contaminated water (HD 08)

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

Median suspensory ligament (HD 08)

39 What do the initials bST stand for?

Bovine somatotropin (HD 08)

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

Feed (HD 08)

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

Fats (HD 08)

42 What happens to the growth rate of a pasture if it is too tall or too short when grazed by cows?

Growth rate is reduced (HD 08)

43 Name the dairy cooperative with the most member farms.

Dairy Farmers of America (HD 08)

44 Most farmers try to harvest first-cut alfalfa when it is in what Stage?

Late-bud stage (HD 08)

45 What percent of lactating dairy cows have oxytocin in their bloodstreams during milking?

100% (all cows) (HD 08)

46 What problem is more likely to occur in recently fresh cows that received dry cow rations high in calcium or have inappropriate calcium to phosphorus ratio in the ration?

Milk fever (Hypocalcemia) or Parturient Paresis (DHM 08)

47 What is the muscle layer of the uterus called?

Myometrium (HD 08)

48 Which stomach compartment is known as the "honeycomb" because the inside surface has a honeycomb texture?

Reticulum (NUT 09)

49 Which vitamin can be synthesized in the body tissue of a newborn calf and therefore, is not required in the diet?

C (K and B-complex are synthesized in rumen) (HD 08)

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

Vitamin A (HD 08)

51 During hot weather, what happens to cow's feed intake and milk production (no change, increase or decrease for each)?

Both decline (HD 08)

52 We can reduce ammonia emissions by reducing the feeding of what?

Protein (HD 08)

53 How do cows effectively lose body heat during hot weather?

Sweating or panting (HD 08)

54 What does the word gestation mean?

Time mother carries young (calf) (HD 08)

55 Most A.I. organizations recommend that inseminators should place semen where: cervix, uterine body, or uterine horn?

Uterine body (DHM 08)

56 When taking silage samples in a bunker silo be sure to take a sample from what two spots?

Face and further inside the pile (DHM 08)

57 When calves are scouring should: milk be taken away and only electrolytes fed, or both milk and electrolytes should be received by the calf?

Milk and electrolytes (DHM 08)

58 Bovine spongiform encephalopathy or BSE is more commonly known as what disease?

Mad Cow Disease (HD 08)

59 The milk from how many cows out of eight ends up on pizza?

One (HD 1/09)

60 Name the nation's largest food company.

Kraft (HD 2/08)

61 Why is colostrum important to newborn calves?

Helps build the calf's immune system (HD 08)

62 What common pest serves as the primary vector of pink eye?

Flies, Face flies, or Musca Autumnalis (HD 08)

63 Can employees working in rotary milking parlors prep and attach milkers faster that move in a clockwise or counterclockwise position?

Clockwise (DHM 08)

64 In a feeding program, what do the initials DMI stand for?

Dry Matter Intake (DHM 08)

65 True or False: It is best to dehorn calves during weaning?

False (HD 2/08)

66 Yes or No: Is 20 gallons considered to be a manure spill?

Yes (DHM 08)

67 True or False: U.S. consumers are more concerned about the safety of the food they eat than the war in Iraq or global warming.

True (HD 08)

68 NAAB uses the percent DBH to report calving ease information. What do the initials DBH stand for?

Difficult Births in Heifers (SS 08)

69 According to the dairy cow unified scorecard, how many points are allotted for feet and legs?

15 points (PDCA 09)

70 What was the average mailbox price for 2008?

\$18.40 (HD 4/09)

71 How many straws of semen can be thawed using one pint of water without compromising semen quality?

4 to 5 straws (DHM 08)

72 Why should a teat dip be used after milking?

To reduce or prevent udder infections (HD 08)

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

Older cows (HD 08)

74 At what Fahrenheit temperature should your refrigerator be set at to store medicines?

36 to 46 degrees F (DHM 08)

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

Two inches (LC 08)

76 What dairy product is being hailed as the flat-belly food?

Yogurt (DHM 5/08)

77 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 (HD 08)

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

Ultrasound (DHM 08)

79 What is the optimum calving interval?

12 - 13 months (HD 08)

80 What is the most common condition in dairy cattle feet?

Laminitis (HD 08)

81 What is the single best indicator for heat detection?

Standing heat (HD 08)

82 Most bacteria grows at what Fahrenheit temperature?

70 to 100 degrees F (HD 08)

83 At birth, the calf's body contains what percent water?

75% water (HD 08)

84 Which breed of dairy cattle has the lowest percentage of inbreeding?

Holstein (HA 08)

85 What is the first milk from a cow that has freshened called?

Colostrum (HD 08)

86 According to the Dairy Cow Unified Score Card, how many points are assigned to Body Capacity?

10 points (HD 08)

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

Sand ((HD 08)

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

Abomasum (HD 08)

89 Forages cut and chopped in the field and fed directly to livestock are known as what?

Green chop (VA 08)

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

Polled (HD 08)

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

Molasses (VA 08)

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

Lactase (HD 08)

93 Which hormone released during parturition softens the cervical and vaginal tissues and causes the dense connective tissue and ligaments in the pelvic area to become more elastic?

Relaxin or estrogen (HD 08)

94 When should one wean calves?

6-8 weeks old (HD 08)

95 How many chromosomes does a cattle embryo have?

60 (30 pairs) (HD 08)

96 What is the leading cause of heifer calf deaths?

Scours (DHM 08)

97 What is dystocia?

Difficult or obstructed calving (HD 08)

98 In which breed of cows is the incidence of milk fever most common?

Jersey (HD 08)

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

Father (sperm) (HD 08)

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

120 days (+/-10) (HD 08)