

2015 NAILE 4-H Dairy Quiz Bowl

Phase A - Answers

- 150001 What term is used to describe forages that are seeded each year and whose growth is completed in one crop year?
Annuals
- 150002 What organ in the dairy cow produces urine?
Kidneys
- 150003 Everything that affects an animal's performance that is not inherited is said to be due to the effects of what?
Environment
- 150004 What feedstuff commonly used in the dairy industry is a by-product of the sugar beet industry?
Beet pulp
- 150005 What is the most common grain fed to dairy cows in the United States?
Corn
- 150006 When a cow chews her cud what is produced that acts as a natural buffer in the rumen?
Saliva
- 150007 What is the correct name for swelling of the udder?
Edema
- 150008 What is the common name for bovine keratoconjunctivitis?
Pinkeye
- 150009 A pH of 7 is neutral. What is the term for a pH less than 7?
Acidic
- 150010 What is the name of the manufacturing process which is used to disperse fat evenly throughout milk?
Homogenization
- 150011 What is the liquid used in freezing and storing semen?
Liquid nitrogen
- 150012 What organ stores and releases bile in the cow?
Gall bladder
- 150013 Which class of nutrients has the most energy per pound?
Fats

150014 What vitamin is known as ascorbic acid?

Vitamin C

150015 What is the technical term for hybrid vigor?

Heterosis

150016 A cow on legume pasture is uncomfortable, with her sides bulging out. What do we call her problem?

Bloat

150017 What calving ease score would be recorded for a Holstein cow if the calving were extremely difficult?

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150018 Which disease occurring in dairy cattle causes undulant fever in humans?

Brucellosis (Bangs disease)

150019 What class of milk is used for the production of ice cream?

Class II

150020 A Canadian heifer weighs 350 Kg (kilograms). Convert that weight to pounds.

770 pounds

150021 Which region of the United States has the largest average herd size?

West

150022 What type of cheese is used for the purpose of calculating Cheese Yield Dollars?

Cheddar

150023 What is the name given to the holes in Emmentaller or Swiss Cheese?

Eyes

150024 Two black and white red carrier Holsteins are mated; what percentage of their offspring would be expected to be red and white?

25 Percent

150025 Which breed of dairy cattle is affected by the condition known as Spiderleg?

Brown Swiss

150026 What is the name of the sugar which is found in semen?

Fructose

150027 Which state had the highest production per cow in 2014?

New Mexico

- 150028 The USDA routinely surveys the milk production in the top producing states? How many states are included in the survey
23 States
- 150029 What is the term for feed material found in the small intestine of a cow?
Chyme
- 150030 A deficiency of Hemoglobin, iron, or red blood cells that prevents adequate transport of oxygen by blood to tissues is known as what?
Anemia
- 150031 Which vitamin is important in the regulation of calcium and phosphorus?
Vitamin D
- 150032 Name the cheese which is said to be shaped like a cannon ball.
Edam
- 150033 If a cow eats 40 pounds of silage that is 50% dry matter, how many pounds of dry matter has she eaten from silage?
40 Pounds x 50 Percent = 20 pounds
- 150034 Your herd is averaging 60 pounds of milk, you receive \$15 per hundred weight and it costs \$6 per day to feed your cows. What is your income over feed cost?
\$3.00
- 150035 You purchased 2000 pounds of 8-12-10 fertilizer. How many pounds of potassium are in the fertilizer?
200 Pounds
- 150036 What hormone secreted by the uterus inhibits FSH release?
Inhibin
- 150037 A defect in the JH1 haplotype is associated with what trait in Jersey cows?
Infertility
- 150038 What mineral is needed by the dairy cow in the greatest quantity?
Potassium
- 150039 What test is conducted by injecting a small amount of an antibody into the caudal fold of the tail?
Tuberculosis test
- 150040 Which month has been designated as Cheese Month?
October
- 150041 Which region of the world imports the most cheese from the United States?
Asia

150042 Which breed passes on the lowest percentage of antibodies from dam to calf?

Holstein (5.6 Percent)

150043 What term describes a dairy cow's vision?

Panoramic

150044 What is the recommended temperature for the pasteurization of waste milk for calves when using an on-farm batch pasteurizer?

145 Degrees

150045 Which VFA provides most of the energy used to develop the rumen wall?

Butyric acid

150046 What is the branch of biotechnology which is concerned with applying molecular biology to the genetic mapping and DNA sequencing of genes?

Genomics

150047 What is the one word term given to the measure of a farm's available assets which can be readily converted to cash?

Liquidity

150048 Prototheca is a colorless algae that can cause which disease in dairy cattle?

Mastitis

150049 You have 1000 pounds of grain which is of 300 pounds of 44% soybean meal and 700 pounds of corn with 9% protein. What is the protein % of the grain mix?

~~25~~ Percent

19.5

150050 Which of the contiguous states in the United States has its own system for producer payment?

California

$$\begin{array}{r} 300 \text{ lb. SBM} \cdot 44\% = 132 \text{ lb.} \\ 700 \text{ lb corn} \quad 9\% \quad 63 \text{ lb.} \\ \hline 19.5\% \end{array}$$