

2017 NAILE 4-H Dairy Quiz Bowl

Phase A - Answers

170001 Milk that is used as fluid drinking milk is classified as what class?

Class 1

170002 The Kjeldahl test can be used to indirectly determine the protein content in feed or milk. What element does the test measure?

Nitrogen

170003 The parotid, submaxillary, buccal and palatine are what type of gland?

Salivary glands

170004 Which sugar gives milk its sweet flavor?

Lactose

170005 Which breed typically transfers on average the lowest percentage of antibodies in colostrum?

Holstein

170006 What is the most important nutrient in all dairy rations?

Water

170007 Name the master gland which controls the estrous cycle.

Pituitary gland

170008 Ovulation occurs from which ovary most often?

Right ovary

170009 What is the name of the temporary structure which develops on an ovary, within which the ovum or egg develops?

Follicle

170010 What is the more common name for Acetonemia?

Ketosis

170011 What organ of the cow's body is responsible for about 25 percent of all metabolic activity?

Liver

170012 To what number of feedings per day should feeders be reduced when weaning calves using an automated milk feeding system?

2 per day

170013 Milk fever is most commonly associated with which breed?

Jersey

170014 What is the scientific term for antibodies?

Immunoglobulins

170015 What is the process called where the uterus returns to normal size after calving?

Involution

170016 The amount of cheese which can be produced from a given amount of milk is primarily affected by which component?

Protein

170017 Where would you most likely find traumatic gastritis?

Reticulum

170018 What is the primary simple sugar in semen?

Fructose

170019 Which state had the highest average production per cow in 2016?

Colorado

170020 When in the milking order should first lactation cows be milked?

First

170021 Volatile Fatty Acids (VFA) are a main source of energy for the dairy cow. Where are VFA's produced?

Rumen

170022 Which acid should be in the highest concentration in well fermented silage?

Acetic acid

Lactic acid

170023 Which of the contiguous states in the United States has its own system for producer payment?

California

170024 What is the science called that deals with hormones and their actions?

Endocrinology

170025 What is the primary hormone produced by the ovaries of a pregnant cow?

Progesterone

170026 What is the SCC standard for milk to *quality* for sale in the international market?

Less than 400,000 cells per milliliter

170027 What is the technical term for the eversion of the teat orifice?

Hyperkeratosis

- 170028 One should be especially concerned with what contaminant when feeding distillers' grains in cool wet years?
Mycotoxins - or specific names
- 170029 If a herd's conception rate is 40%, what proportion of the cows which were bred should be pregnant after 2 services?
64 Percent
- 170030 What hormone secreted by the uterus inhibits FSH release?
Inhibin
- 170031 What is the recommended maximum number of calves per nipple in an automated calf feeding system?
25 Calves
- 170032 What is the maximum recommended weight difference between the lightest and heaviest yearling heifers within a group?
200 Pounds
- 170033 What hormone blocks the oxytocin receptors?
Adrenaline; Epinephrine
- 170034 Excess ammonia is converted into what by the liver and kidneys then subsequently excreted in the urine?
Urea
- 170035 You purchase 3 tons of heifer feed that contains 18% crude protein. How many pounds of crude protein did you buy?
1080 Pounds
- 170036 Which AI company was acquired by Select Sires in the past year?
Accelerated Genetics
- 170037 What is the general term used to describe an infected uterus?
Metritis
- 170038 What is the recommended temperature for the pasteurization of waste milk for calves when using an on-farm batch pasteurizer?
145 Degrees
- 170039 What is the one word term given to the measure of a farm's available assets which can be readily converted to cash?
Liquidity
- 170040 What is the most common gas found in oxygen-limiting silos?
Carbon dioxide
- 170041 What term describes a dairy cow's vision?
Panoramic

170042 What tissue is monitored for residual drug levels at slaughter?

Kidneys

170043 A process has been developed which produces vodka from what dairy waste product?

Whey

170044 What is the technical term for the liquid which seeps from a silo?

Leachate

170045 How many pounds of silage at 40 percent moisture must be fed to have 1000 pounds of dry matter?

2500 Pounds

1667/103

170046 Over 2 million dairy cattle have been tested using what genetic test?

Genomic testing

170047 What is the most common type of tractor overturn incident?

Side overturn

170048 The FDA recently increased testing for what drug?

Tetracycline

170049 What mineral is needed by the dairy cow in the greatest quantity?

Potassium

170050 What is the term for different pathogenic types of bacteria?

Serotypes