

2013 NAILE 4-H Dairy Quiz Bowl

Phase A - Answers

- 180001 What is the most essential nutrient for a dairy cow?
- Water**
- 180002 If a cow has produced 3 bull calves, what is the chance that her next calf will be a heifer?
- 50 Percent**
- 180003 What is the most popular cheese in the U.S.?
- Mozzarella**
- 180004 What is another name for a cow's mammary gland?
- Udder**
- 180005 After fertilization in the oviduct the zygote travels where for further growth?
- Uterus**
- 180006 Soybean meal is an excellent source of which nutrient?
- Protein**
- 180007 What is the name of the funnel shaped structure that partially surrounds the ovary?
- Infundibulum**
- 180008 What hormone is at its peak near the onset of standing estrus?
- Estrogen**
- 180009 What is the stomach compartment called which consists of a network arrangement of tissue often referred to as the honeycomb?
- Reticulum**
- 180010 What is the term for the process by which udder tissue reverts to a non-milk-producing state after drying off?
- Involution**
- 180011 Conception rates are typically lowest for cows during which season?
- Summer**
- 180012 What cellular material is needed to determine an animal's genetic fingerprint?
- DNA**
- 180013 What is the term that means no oxygen is present in the rumen mixture?
- Anaerobic**

- 180014 What factor has the most effect on the amount of cheese that you can get from a pound of milk?
Protein
- 180015 What is the current regulatory maximum SCC for herds in the United States?
750,000 Cells/ml
- 180016 What is the name of the national dairy processor education program?
MilkPEP
- 180017 Which state produces over 25 percent of the cheese in the U.S.?
Wisconsin
- 180018 What mineral in milk has been linked to weight loss?
Calcium
- 180019 What hormone is produced in the pineal gland?
Melatonin
- 180020 Other than water, what is the largest single solid component in normal milk?
Lactose
- 180021 What hormone is released prior to calving which enables the cervix to soften and stretch in preparation for expelling the calf?
Relaxin
- 180022 Which state had the highest average milk production in 2017?
Michigan
- 180023 What percentage of its genetic material does the fetus receive from its maternal granddam?
25 Percent
- 180024 Where are mature sperm stored in the male reproductive tract?
Epididymis
- 180025 What is the highest grade butter sold in the United States?
Grade AA
- 180026 What term is used to measure the accuracy of a genetic evaluation?
Reliability
- 180027 Which country is the largest importer of cheese from the U.S.?
Mexico

180028 What characteristic of legumes allows them to tolerate dry conditions better than many forages?

Taproot

180029 What nutrients are generally measured in International Units (IU)?

Vitamins

180030 What is the term for the process of chewing food again during rumination called?

Remastication

180031 Riboflavin is mainly found in milk in what form?

Lactoflavin

180032 What hormone contracts the blood vessels and diminishes the effect of oxytocin?

Adrenaline

180033 Where is gonadotropin releasing hormone (GnRH) produced?

Hypothalamus

180034 The most effective foot bath solutions for controlling digital dermatitis contain what compound?

Copper sulfate

180035 What is the term for the condition when bacteria from a local infection enter the blood stream and have systemic effects?

Sepsis

180036 What is the term for vaccines that are developed from pathogens on a specific farm for that farm?

Autogenous

180037 Tocopherol is the chemical name for which vitamin?

Vitamin E

180038 What is the term for a protein that acts as a catalyst in starting or speeding up specific chemical reactions?

Enzyme

180039 Silage from brown midrib corn is more digestible than normal corn silage because it is lower in what component?

Lignin

180040 If a herd's conception rate is 30%, what proportion of the cows which are bred, should be pregnant after 2 services?

51 Percent

180041 What are the substances called that are foreign to the blood stream, stimulate the production of a specific antibody and then react with it?

Antigen

180042 The terms "floury" and "flinty" refer to what grain?

Corn

180043 What is the scientific term that describes any birth that requires assistance, takes longer than normal, reduces calf viability or injures the mother?

Dystocia

180044 Which species has been genomically tested more than cattle?

Humans

180045 You purchase 2 tons of heifer feed that contains 18% crude protein. How many pounds of crude protein did you buy?

720 Pounds

180046 A new vaccine was recently released for which mastitis causing organism?

Klebsiella

180047 What is the term for bacteria which survive pasteurization?

Thermoduric

180048 What is the scientific name for circling disease?

Listeriosis

180049 What is the term for the suitability for planting crops?

Tilth

180050 What is the cycle of reactions called that converts glucose into pyruvate while at the same time producing ATP called?

Glycolysis