

**2013 NY District Novice  
Dairy Quiz Bowl Contest**

**Novice Packet 1, Phase A**

- 1) After a cow gives birth, what is the name of the first milk produced by the cow?
  - Colostrum
  
- 2) What is the processed called when we turn cream into butter?
  - Churning
  
- 3) In feeding our dairy animals, what do the letters TMR stand for?
  - Total Mixed Ration
  
- 4) The food that a cow regurgitates and re-chews is known as what?
  - Cud

## Novice Packet 1, Phase B

- 1) Name the 6 major breeds of dairy cows.
  - Holstein
  - Jersey
  - Milking Shorthorn
  - Brown Swiss
  - Ayrshire
  - Guernsey
  
- 2) Name 4 signs or symptoms that your dairy animal might be sick.
  - Rough or dry hair coat
  - Runny nose, red or dry nose/mouth
  - Dull and sunken eyes
  - Off color or dry, hard or runny manure
  - Droopy ears
  - Lethargic
  - Above or below temperature
  - Lack of appetite
  
- 3) Name 2 reasons why cattle should be dehorned.
  - Prevent injury to other animals
  - Prevent injury to people
  - Space-animals with horns require more space to eat
  - Horned animals will have difficulty fitting heads into headlocks
  
- 4) What 2 breeds of dairy animals originated on a British Channel Island?
  - Jersey
  - Guernsey

## Novice Packet 1, Phase C

- 1) What is the danger to a person when entering an upright silo too soon after filling?
  - Toxic silo gases
- 2) What does the acronym SCC stand for in regards to milk quality?
  - Somatic Cell Count
- 3) What is the name of the storage unit used for holding milk?
  - Bulk tank
- 4) What does A. I stand for?
  - Artificial insemination
- 5) What is the term used on a dairy animal's pedigree for an animal's father?
  - Sire
- 6) During a normal calving, what is the first part of the calf you will see coming out of the cow?
  - Front hooves
- 7) The fermentation vat is also another name for which stomach compartment of the dairy cow?
  - Rumen
- 8) What illness is a calf likely to develop if she is raised in a drafty environment?
  - Pneumonia

9) What is the best protein source for feeding baby calves?

- Milk

10) What is the name for an infection of the udder?

- Mastitis

11) The personal space of a cow, calf or heifer is called what?

- Flight zone

12) What does it mean if a calf is born without horns?

- She is polled

13) What direction should a leadsperson be facing when walking into a show ring?

- Forward

14) How much colostrum should a calf have at birth?

- One gallon or 8 to 10 % of bodyweight (accept 3 to 4 quarts but not 2 quarts)

15) How many incisor teeth does an adult cow have?

- 8

16) What is a crop called that has been turned into animal food through fermentation in a silo and stored with little exposure to oxygen?

- Silage

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**Novice Packet 2, Phase A**

1) How many quarters are there in a cow's udder?

- 4

2) Which portion of the plant do grains usually come from?

- Seeds

3) What is a doctor of animals called?

- Veterinarian

4) On what part of the cow would you find the dewclaws?

- Foot

## **Novice Packet 2, Phase B**

1) Name 3 different types of non-permanent cow identifications.

- Ear tags
- Ankle straps
- Neck straps
- Crayons
- Brisket tags
- External electronic devices

2) Name the 4 compartments of the dairy cow's stomach.

- Rumen
- Reticulum
- Omasum
- Abomasum

3) What do the 4-H's stand for?

- Head
- Hand
- Heart
- Health

4) What does a 3X on a cow's milk production records mean?

- She was milked 3x daily

## Novice Packet 2, Phase C

- 1) What is the name of the stomach compartment that is also called the hardware stomach?
  - Reticulum
- 2) What is the most popular cheese on pizza?
  - Mozzarella
- 3) What is the process of squeezing two streams of milk by hand from the teat before putting on the milking machine called?
  - Fore stripping
- 4) What is the process in which the cow relaxes and releases the milk in the udder so it can be milked out?
  - Milk letdown
- 5) Why, other than for a cow show, are cows clipped especially in the winter and in stanchion or tie stall barns?
  - Help keep them clean or help keep the milk clean
- 6) What is a calf with parents from two different breeds called?
  - Crossbreed
- 7) Why should a teat dip be used after milking a cow?
  - To reduce or prevent udder infections
- 8) What is the name used to describe the general class of chemicals which are used for weed control?
  - Herbicides

9) Whey is the by-product from making what?

- Cheese

10) A tiny-one celled microorganism that may cause illness is called a what?

- Bacteria

11) A male bovine that is castrated before puberty is called a what?

- Steer

12) Where do heel flies lay their eggs on a dairy animal?

- On the lower legs

13) At a cattle show, what color clothing is best and preferred for a showmanship class?

- White

14) What country did the Brown Swiss cow come from?

- Switzerland

15) A young female dairy animal that has not yet had a calf is called a what?

- Heifer

16) In the dairy industry, what is a herringbone?

- Type of milking parlor

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**Novice Packet 3, Phase A**

- 1) A balling gun would be used to give an animal what?
  - Pill
  
- 2) What do you call the condition in a cow when her body temperature is 103 degrees Fahrenheit or greater?
  - A fever
  
- 3) What does the “Real Seal” mean on a food product?
  - It means it is a genuine dairy product
  
- 4) How many pasterns does a calf have?
  - 4

## Novice Packet 3, Phase B

1) Name 3 types of common bedding materials used to bed dairy cattle.

- Newspaper
- Sand
- Straw
- Sawdust
- Shavings
- Recycled manure solids
- Old hay
- Mattresses
- Rubber mats

2) Name 3 parts of the cow's reproductive tract.

- Vulva
- Vagina
- Cervix
- Ovaries
- Oviduct
- Uterus

3) Name 3 different dairy products made from milk?

- Butter
- Cheese
- Yogurt
- Ice cream
- Low fat milk
- Flavored milk
- Cottage cheese

4) Name 3 different materials that a halter can be made of?

- Leather, Rope, Chain, Nylon

## Novice Packet 3, Phase C

1) How many teeth does a cow have?

- 32

2) When judging dairy cows, what is worth 40 points on the PDCA scorecard?

- Udder

3) When is National Ice Cream Month?

- July

4) What is a group of cattle called?

- Herd

5) What is the most important nutrient that cows and all living things need?

- Water

6) What is the name of a sale where bids are received and the animal is sold to the highest bidder?

- Auction

7) What stomach compartment of the dairy cow is called the true stomach?

- Abomasum

8) What is the major buffer for a dairy cow that helps to maintain rumen pH?

- Saliva

9) What is the name of the time period when a cow is in milk?

- Lactation

10) What percent of milk is digestible?

- 96 to 98 % ( Accept anything in this range)

11) What is the name for milk that comes from the cow prior to processing it?

- Raw milk

12) On average how many days are there between heat periods in dairy cows?

- 21 days (accept 17 to 21 days)

13) A record of ancestry for an animal is called what?

- Pedigree

14) What is the name of the fungus infection that invades the hair follicles and outer layer of skin and appears in circles?

- Ringworm

15) What is the name of the disease in calves that is characterized by diarrhea, dehydration and unthriftiness?

- Scours

16) What is the name of the small projections that line the wall of the small intestine?

- Villi

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**Novice Packet 4, Phase A**

- 1) What is stored in liquid nitrogen on the farm?
  - Semen
  
- 2) In what part of the dairy cow's digestive system do fiber digesting microbes live?
  - The rumen
  
- 3) What is the most important mineral found in milk and is important for bone growth?
  - Calcium
  
- 4) What type of milk contains 0 grams of fat?
  - Fat free (skim)milk

## Novice Packet 4, Phase B

1) What are the 3 acceptable colors of a registered Holstein?

- White
- Black
- Red

2) Name 3 things that the milk- hauler does before pumping the milk from the bulk tank on to the milk truck.

- Checks the temperature of milk
- Takes a sample of the milk for testing
- Checks milk for off odors
- Measures the amount of milk in the tank
- Agitates the milk before taking the sample

3) Name three types of systems or ways that a farmer can store their silage.

- Upright silo
- Trench silo
- Bunker silo
- Ag bag
- Harvestore silo
- Wrappers ( single wrapped bags)
- Tubes

4) Give 3 signs that a cow is in heat.

- Restlessness
- Bellowing
- Following and smelling other cows
- Mounting other cows
- Standing to be mounted by other cows
- Discharge of a clear mucous from the vulva
- Vulva is red and swollen

## **Novice Packet 4, Phase C**

- 1) What is the name for the hair on the end of a cow's tail?
  - Switch
  
- 2) What is the term used in describing taking a calf off milk as its main source of nutrition?
  - Weaning
  
- 3) What is a lagoon used for in an agricultural business?
  - Manure storage
  
- 4) What are the building blocks of protein called?
  - Amino Acids
  
- 5) What does colostrum contain that no other milk does?
  - Antibodies
  
- 6) What is the white solid called that is produced in the cheese making process when milk is coagulated?
  - Curd
  
- 7) What is the name given to hooved animals that chew their cud?
  - Ruminants
  
- 8) What is the name for the machine with four teat cups and is attached to the cow to pump out the milk?
  - Milking machine

9) The process that uses controlled heat to kill harmful bacteria in milk and makes it safe to drink is called what?

- Pasteurization

10) What is the name of the class of animals that produces milk to feed its babies?

- Mammal

11) How many pounds does a gallon of milk weigh?

- 8.6 pounds

12) What is a normal dairy cow temperature?

- 101.5 F (Accept 101 to 102.5)

13) How many gallons of water will a cow drink in a day?

- 25 to 50 gallons

14) What is the name of the organization that coordinates the dairy industry's advertising and marketing?

- American Dairy Association

15) What is the ideal age for a heifer to have her first calf?

- 24 months (accept 22 to 24 months)

16) What is the condition called where excessive fluid collects in the udder?

- Udder edema

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**Novice Packet 5, Phase A**

- 1) What is the name of the special facility where cows or goats are brought to be milked?
  - Milking parlor
  
- 2) What is the name for the membranes of pregnancy that pass out of the cow after she gives birth to a calf?
  - Afterbirth or placenta
  
- 3) What part of the corn plant is corn meal made from?
  - Corn kernels
  
- 4) What is another name for the reticulum?
  - Honeycomb

## Novice Packet 5, Phase B

1) Name 3 things you should do within the first hour after a calf is born to keep a newborn calf healthy.

- Check to see if it is breathing normally
- Be sure the calf is in a clean and dry environment
- Dip the navel with iodine
- Feed a colostrum
- Give any medications that the farm is using

2) Name 3 pieces of information you would find on your animals registration paper.

- Name
- Sire
- Dam
- Birthdate
- Owner
- Breeder
- Sex
- Registration number
- Grand dam
- Grand sire

3) Name 3 parts of the dairy cow which are associated with the mammary system.

- Teats
- Rear udder
- Fore udder
- Rear udder attachment
- Fore udder attachment
- Milk wells
- Milk veins
- Median suspensory ligament

4) Name 2 different types of milking parlors.

- Herringbone, Parabone, Parallel, Rotary, Side opening, Flat barn

## Novice Packet 5, Phase C

- 1) What part of the body does ringworm affect?
  - Skin
- 2) What is the name of the sugar found in milk?
  - Lactose
- 3) Which parents determines the sex of a calf?
  - Sire or male
- 4) What word describes the selling of unwanted or poor quality animals from the herd?
  - Cull
- 5) What month is National Dairy Month?
  - June
- 6) What does NDC stand for?
  - National Dairy Council
- 7) How long is the average dry period for a cow?
  - 60 days ( Accept 45 to 60 days)
- 8) What does the orange triangle sign on the back of a hay or silage wagon mean?
  - Slow moving vehicle

9) What connects the fetus to the navel and carries nutrient between the mother's body and the fetus?

- Umbilical cord

10) The period from conception to birth is called what?

- Gestation

11) What is the food a cow is given where everything is mixed together so each bite is the same and the mix meets all of the animal's nutritional needs?

- TMR or Total mixed ration

12) What is the name given to the spot located directly behind a cow?

- Blind spot

13) What hygiene practice is the single most important measure for preventing the spread of a disease from animals to humans?

- Hand washing

14) Of the 6 major dairy breeds, which breed is the smallest?

- Jersey

15) A newborn calf's navel is often dipped with what substance?

- 7% tincture iodine

16) The highest percent of protein is in what part of the alfalfa plant?

- Leaves

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**Novice Packet 6, Phase A**

- 1) What does the term open mean when talking about a dairy cow?
  - She is not pregnant
  
- 2) What part of the plant has the highest fiber concentration, the stem or leaves?
  - Stem
  
- 3) A swelling of the rumen caused by an accumulation of gas is called a) bloat, b) pregnancy, or c) infection?
  - A bloat
  
- 4) What do we call a paper that accompanies a purebred animal and certifies his or her parentage?
  - Registration paper

## Novice Packet 6, Phase B

1) Name 3 important factors to consider when choosing a dairy calf as a project animal.

- Age,
- Breed
- Health
- Pedigree
- Conformation
- Cost/price
- Housing

2) Name 2 adjectives that best describes the ideal rear udder attachment.

- High
- Wide

3) Spell the word Guernsey.

- Guernsey

4) Name 3 reason why a dairy farmer might sell or cull a cow from the herd.

- Disease
- Injury
- Low production
- Mastitis
- Not pregnant
- Disposition
- Poor type (ugly)

## Novice Packet 6, Phase C

- 1) When an injection is given IV where is the material deposited?
  - In the vein
- 2) What direction do you move when leading a dairy animal in the show ring?
  - Clockwise
- 3) How many points is dairy strength given on the PDCA Dairy Cow Unified Scorecard?
  - 25 points
- 4) The cultured dairy product with a sour taste that is made by adding a starter bacteria culture and often flavored with fruit is called what?
  - Yogurt
- 5) What do you call a stall in a barn where the cow is free to come and go?
  - A Freestall
- 6) The daily consumption of food or feed is called what in regards to dairy cows?
  - Ration
- 7) When a cow relaxes and releases the milk in the udder so it can be milked out, the name of the process is called what?
  - Milk letdown
- 8) In which season of the year are lice most prevalent for dairy animals?
  - Winter

9) What is the common term for a displaced abomasum

- Twisted stomach

10) What is the milk let down hormone called?

- Oxytocin

11) How do you place a magnet in a cow's reticulum?

- Orally or through the mouth

12) Name the dairy breed that has the highest average milk production.

- Holstein

13) If you are lactose intolerant, what kinds of food can't you eat?

- Dairy products

14) When showing, what side of your animal are you on?

- Left side

15) How many upper front teeth does a cow have?

- None

16) How many hocks does a dairy cow have?

- Two