

QUESTIONS FROM 2014 NATIONAL GUERNSEY QUIZ BOWL CONTESTS

(some of these are outdated and would change for 2015)

1. What is the name of the portion of a cow's back that lies between the chine and rump?
 - a. Loin
2. A Guernsey showing in the Fall Calf class must be born in what three months?
 - a. September, October, November
3. What process kills disease-causing organisms by heating milk to high temperatures?
 - a. Pasteurization
4. What state produces the most total milk in the United States?
 - a. California
5. What is the name for milk remaining in the udder after milking is completed?
 - a. Residual milk
6. What organization is designated by the initials PDCA?
 - a. Purebred Dairy Cattle Association
7. When referring to Guernsey genetics, what do the letters CPI stand for?
 - a. Cow Performance Index
8. Which hormone is known as the milk letdown hormone?
 - a. Oxytocin
9. What do the letters IVF stand for in reproductive technology terms?
 - a. In-vitro fertilization
10. Name the state where the 2013 National Guernsey Show at Puyallup took place.
 - a. Washington
11. Indian Acres American Pie is the son of what famous cow?
 - a. Indian Acres MM Pistachio Pie
12. Research shows that what material is the best to use when covering bunker silos?
 - a. Plastic
13. What flavor of ice cream is the most popular in the United States?
 - a. Vanilla

14. What is the most common grain fed to cows in the United States?
 - a. Corn
15. What is the largest fundraiser each year at the National Guernsey Convention for junior members of the American Guernsey Association?
 - a. Youth auction
16. If your cow begins losing weight rapidly, drops in milk production, and has a soft swelling in her jaw, you should probably have her tested for which disease?
 - a. Johne's
17. It takes about 12 pounds of milk to make one gallon of which popular dairy product?
 - a. Ice cream
18. In feeding terminology, what do the initials NDF stand for?
 - a. Neutral Detergent Fiber
19. The pharynx lies between the mouth and what tube that carries food to the rumen?
 - a. Esophagus
20. Which linear type trait is abbreviated RA on Guernsey pedigrees?
 - a. Rump Angle
21. Electrolyte solutions are most commonly fed to which age group on a farm?
 - a. Calves
22. All carbohydrates are composed of carbon, oxygen, and what other chemical element?
 - a. Hydrogen
23. A mature cow produces between 50 and 80 quarts per day of which fluid that buffers the rumen?
 - a. Saliva
24. What is the name of the 2-carbon volatile fatty acid that is used to make milkfat?
 - a. Acetic (acetate)
25. What captain introduced Guernsey cows to America around 1840 when he brought three Alderney cattle to New York?
 - a. Belair
26. In feeding terminology, what do the letters DMI stand for?
 - a. Dry Matter Intake

27. Sniders Ronalds Alstar is a son of what famous cow?
 - a. Cedar Fringed Altann

28. The Fuel Up to Play 60 program is a partnership between the dairy industry and what professional sports league?
 - a. National Football League

29. What was the original name of the American Guernsey Association?
 - a. American Guernsey Cattle Club

30. What major breakdown on the PDCA Unified Dairy Scorecard contains ribs and chest?
 - a. Dairy Strength

31. On what type of cell would you most likely find an acrosome?
 - a. Sperm cell

32. What is the metabolic disorder called that is characterized by a significant drop in rumen pH?
 - a. Acidosis

33. What is the general term for mastitis cases that show no visible abnormalities in the milk but produce elevated somatic cell counts?
 - a. Subclinical

34. What trait in sire summaries is abbreviated PL and is a measure of longevity?
 - a. Productive Life

35. Who was the recipient of the 2013 Outstanding Young Guernsey Farmer Award?
 - a. Victoria Baker

36. What cow was Grand Champion at the 2013 National Guernsey Show in Madison and was named All-American Aged Cow?
 - a. Wee Acres Spider Clara Bell-ET

37. A Guernsey cow must be classified at least how many points to be eligible for the CPI list?
 - a. 80

38. What hormone is produced by the pancreas and promotes mammary growth and cell division?
 - a. Insulin

39. Lavon Farms Gemin Jill was Grand Champion at which 2013 National Guernsey Show?
a. Harrisburg
40. Federal standards require that ice cream contain at least what minimum percent fat?
a. 10%
41. What is the term for the condition that occurs when a person cannot digest milk sugar due to the lack of an enzyme and becomes bloated and nauseous?
a. Lactose Intolerance
42. What state holds a video calf sale each year at their state Guernsey convention?
a. Wisconsin
43. A calf that is born dead or dies within 48 hours after birth is classified as what?
a. Stillborn/stillbirth
44. Of **fats, carbohydrates, or proteins**, which has the most energy per pound?
a. Fats
45. If your cow was successfully bred on February 10, in which month should you expect her to calve?
a. November
46. A deficiency of which fat soluble vitamin results in night blindness and rough hair coat?
a. Vitamin A
47. An on-farm culture system is often used to determine pathogens causing what major disease?
a. Mastitis
48. In bovine health terms, what do the letters BTV stand for?
a. Blue Tongue Virus
49. What current member of the AGA board of directors also serves as president of Purebred Publishing?
a. Morey Miller
50. What man developed the standard measure of determining the butterfat content of milk?
a. Stephen Babcock
51. Milk used to produce cheddar cheese falls under which usage class in the Federal Order system?
a. Class III

52. Genomics is a branch of which science that deals with chromosomes and the laws of inheritance?
- Genetics
53. Your pregnant cow is in her first trimester. What does that mean?
- She is in first three months of pregnancy
54. Which fat soluble vitamin is produced in the skin of most mammals?
- Vitamin D
55. What color is the recommended color when using the Real Seal?
- Red
56. Face flies are the primary pest that spread which disease in cattle also known as keratoconjunctivitis?
- Pinkeye
57. How many times per year is the Guernsey Breeders Journal published?
- Ten
58. What All-American Guernsey cow was the highest selling Guernsey at public auction in 2013 at a price of \$28,500?
- Adams Creek Hillpoint Marsha-ET
59. In 1957 a Guernsey cow and three Guernsey calves were given away on what game show that is still on television and now hosted by Drew Carey?
- The Price Is Right
60. What metabolic disease is the most common reason for downer dairy cows on farms, even though most of these cows quickly recover?
- Milk fever
61. Before moving to Ohio, the headquarters for the American Guernsey Cattle Club were located in which New England state?
- New Hampshire
62. Who is the United States Secretary of Agriculture?
- Tom Vilsack
63. Which AGA performance program is abbreviated TPE?
- Total Performance Evaluation

64. Treating cows with oxytocin immediately after calving can help prevent what reproductive problem that occurs when the fetal membranes are not expelled?
- Retained placenta
65. Trotacre Tiller Brenna surpassed what cow as the new Guernsey record holder for milk in a 365 day lactation?
- Breezy Point P Racer
66. The first National Guernsey Quiz Bowl was held in what year?
- 1987
67. Consumption of what high-fat dairy product hit a 44 year high in 2013?
- Butter
72. In the Guernsey Breeders Journal's All-American Contest, each judge's first place vote is worth how many points?
- 5
68. Neospora is mainly transmitted through the feces of what animals?
- Dogs
69. What term abbreviated REL refers to the confidence that can be placed in genetic evaluation?
- Reliability
70. What term describes the passage of nutrients through the intestinal wall into the bloodstream?
- Absorption
71. Dennis Wolff was the first recipient of what Guernsey award?
- National Outstanding Guernsey Youth (Outstanding Youth)
72. Which Guernsey youth scholarship requires participation in a Guernsey National Junior Show?
- Turley Scholarship
73. For every hundred pounds of milk used to make cheese, a manufacturer should expect to get about how many pounds of whey?
- Approximately 90
74. Who wrote the book, *The Guernsey Breed: An Illustrated Chronicle*?
- C.B. Harding

75. Before they are used in genetic evaluations, lactation records are adjusted to what standard length in days?
- 305 days
76. Queso Fresco and Ricotta are varieties of which dairy product?
- Cheese
77. In 2013, what cow earned both the Liebers Trophy and the Arnold Knight Trophy?
- Walnut Ridge Magic Cher
78. What system in a barn is responsible for exchange of air with the outside and often uses fans, curtains, or open eaves?
- Ventilation
79. What is the name for the byproduct feed that includes discarded cookies, doughnuts, or cakes?
- Bakery waste
80. The National Animal Germplasm Program is mainly storing what frozen product to provide a genetic backup to the U.S. livestock industry?
- Semen
81. The Commercial Herd Award sponsored by the AGA is based on production of ECM. What do the letters ECM stand for?
- Energy Corrected Milk
82. In what year did U.S. Guernsey registrations reach their highest level, with over 113,000 registered animals?
- 1952
83. Name one of the two young sire sampling groups within the American Guernsey Association.
- Dairybelt Guernsey Sires or United Guernsey Genetics
84. What do the letters GHG stand for in relation to methane and carbon dioxide production?
- Greenhouse Gas
85. What term beginning with the letter M refers to the process where energy is made available for use by cells?
- Metabolism

86. Which ovarian hormone causes cows to show signs of heat?
a. Estrogen
87. The milk ring test is used to identify what disease in cattle?
a. Brucellosis
88. Arnold Knight received what prestigious award at the 2013 National Guernsey Convention?
a. Distinguished Service Award
89. What organization that promotes udder health is abbreviated NMC?
a. National Mastitis Council
90. What famous businessman established Emmadine Farm and Foremost Dairy?
a. J.C. Penney
91. Which part of the large intestine is mainly responsible for absorbing water?
a. Colon
92. Sorted semen is also known by what other name?
a. Sexed
93. What is a perfect overall total point score for a contestant in the *Hoard's Dairyman* Judging Contest?
a. 500
100. What specific part on the PDCA Dairy Cow Scorecard is valued at 2 points and is described as "long, lean, and smoothly blending into shoulders?"
a. Neck
101. What do the letters RF stand for in the type of eartag abbreviated RFID?
b. Radio frequency
102. What U.S. state accounts for over 25% of the nation's cheese production?
a. Wisconsin
103. According to *Hoard's Dairyman*, free stalls should be a minimum of how many feet long to provide adequate body and head space?
a. 8 feet
104. What national organization currently administers the Real Seal program?
a. National Milk Producers Federation (NMPF)

105. What reproductive organ of a donor cow undergoes aspiration to harvest oocytes?
- Ovaries
106. Hans Sloane from Ireland is credited with making the first glass of what type of milk?
- Chocolate milk
107. Chromosomal DNA is found in what cell structure?
- Nucleus
108. What is another name for the condition called parturient paresis that often occurs after calving?
- Milk fever
109. What type of organisms are often classified as gram positive or gram negative?
- Bacteria
110. Which Excellent 96 point cow was the first Guernsey to be successfully cloned?
- Westlynn Tom Dee
111. What international Guernsey gathering was held on the Isle of Guernsey in 2013?
- World Guernsey Conference
112. The European Union, United States, and what other nation are the three largest suppliers of dairy exports?
- New Zealand
113. In relation to farm machinery safety, tractors are sometimes equipped with a ROPS. What do the letters ROPS stand for?
- Roll Over Protection Structure
114. The Milk Processor Education Program has retired the Got Milk slogan and replaced it with what new campaign?
- Milk Life
115. On the April 2014 Guernsey top 300 CPI list, both the second and third ranking cows carry what two-word prefix?
- Lang Haven
116. A Guernsey cow that scores 73 points under the AGA appraisal program falls into which final score category?
- Desirable

117. Which chemical element is abbreviated P?
a. Phosphorus
118. What title is awarded to the second place contestant in the National Guernsey Queen Contest?
a. National Guernsey Princess
119. What is the more common name for the Agriculture Act of 2014 that was signed into law at Michigan State University by President Obama?
a. Farm Bill
120. What is legal somatic cell count limit per milliliter of milk in the European Union?
a. 400,000
121. What product produced from whey is abbreviated WPC?
a. Whey Protein Concentrate
122. Genomic evaluations were officially released by USDA in what year?
a. 2009
123. In a lawsuit concerning horses, a federal jury in Texas ruled that breed associations across species must accept what type of animals?
a. Clones
124. What is the name of the problem that occurs when electrical lines are not properly grounded, resulting in electrical currents running through water bowls and milking equipment?
a. Stray voltage
125. During the estrous cycle, which gland releases FSH?
a. Pituitary (anterior pituitary)
126. Who is credited with inventing the centrifugal cream separator?
a. Gustav DeLaval
127. Which family of bacteria cause both blackleg and botulism?
a. Clostridia
128. What type of professionals belong to the AVMA?
a. Veterinarians
129. Dan Sivesind judged the 2013 National Guernsey Show held in which city?
a. Louisville

130. In 2012, what company became the top dairy foods processor in the United States?
a. Nestle (USA)
131. What substance in Guernsey milk gives it a yellow color and is the precursor of Vitamin A?
a. Beta carotene
132. The National Dairy Shrine Museum is located in which Wisconsin town that is also the home of Hoard's Dairyman?
a. Fort Atkinson
133. In Guernsey history, the movie called Island Rescue was notable because it starred David Niven and a Guernsey cow with what one-word name that is the same as a planet?
a. Venus
134. Ascorbic acid is another name for which vitamin?
a. Vitamin C
135. In which season are abortion rates highest in cows?
a. Summer
136. What are the fingerlike projections called that line the rumen wall and assist with absorption?
a. Papillae
137. Clover and what other pasture forage are generally thought to produce the most acute cases of bloat?
a. Alfalfa
138. Which act passed by Congress in 1922 enabled U.S. farmers to form cooperatives?
a. Capper-Volstead Act
139. What hormone is given first in the Ovsynch protocol and is then followed by prostaglandin?
a. GnRH
140. Which Guernsey sire had over 10,000 daughters on test in the United States during his lifetime?
a. Kelloggs Minnies Choice

141. Ralph Knowles was an artist who updated what noteworthy Guernsey painting in 1960 with the guidance of the Guernsey Type Committee?
Ideal (Type) Guernsey Cow (also accept true-type Guernsey) (GH)
142. Cleverlands Dairymost Chrystal was the first Guernsey to win what prestigious honor at World Dairy Expo?
a. Supreme Champion
143. Batch and HTST are methods used in what milk processing procedure?
a. Pasteurization
144. Who is the current editor of the Guernsey Breeders Journal?
a. Cheri Oechsle

