1. The form of mastitis that is hidden from sight is known as _______
   a. Infectious
   b. Clinical
   c. Acute
   d. Sub-clinical

2. Today, milk that has been ultra pasteurized must have been heated at or above _____ degrees for at least ______.
   a. 161ºF for 15 seconds
   b. 180ºF for 10 seconds
   c. 200ºF for 5 seconds
   d. 280ºF for 2 seconds

3. Which of the following will best control contagious mastitis?
   a. Pre-milking teat dip
   b. Barrier type teat dip
   c. Antibiotic teat dip
   d. Germicidal teat dip

4. The __________ test is used to detect if milk has been pasteurized properly.
   a. Lipase
   b. Coliform
   c. Standard Plate Count
   d. Phosphatase

5. The __________ test may be of value in detecting gross carelessness in the production and handling of milk on the farm.
   a. Phosphatase
   b. Sediment
   c. Freezing Point
   d. Acidity

6. Milk provides _____ and _____ in approximately the same ratio as found in bone.
   a. Calcium and magnesium
   b. Calcium and phosphorus
   c. Calcium and iron
   d. Phosphorus and magnesium

7. A major reason the federal government establishes minimal farm milk prices is
   a. to insure that all dairymen have a market for milk
   b. to insure that all processors have adequate milk for manufacture of butter and cheese
   c. to insure an adequate supply of pure and wholesome milk for the consumer
   d. to provide federal control of the production of milk
8. About _____ percent of the calcium available in the food supply is provided by milk and milk products.
   a. 66%
   b. 76%
   c. 86%
   d. 96%

9. Which of the following directly influence(s) the total supply of milk?
   a. Prices paid milk producers
   b. Manufacturing plants
   c. Costs of fat production
   d. Foreign exports

10. Specific gravity of milk at 60ºF is __________.
    a. 1.022
    b. 1.032
    c. 1.033
    d. 1.042

11. The Dairy Herd Improvement Association is a cooperative which provides_______.
    a. Data on breeding quota levels
    b. Milk testing and record keeping program for dairy cows
    c. Minimum prices paid by processors to producers for milk.
    d. Assistance to groups of dairy farmers who collectively market their milk

12. Farm water supplies must be protected from surface contamination. Water is usually tested for _______ as an indicator of possible sewage contamination.
    a. Proteolytic bacteria
    b. Lipolytic bacteria
    c. Coliform bacteria
    d. Psychrotrophic bacteria

13. The International Dairy Federation (IDF) mission is to promote ____________.
    a. Scientific, cultural & economic progress
    b. Agricultural, technical & economic progress
    c. Technical, scientific & industrial progress
    d. Scientific, technical & economic progress

14. If you produce milk in this state, the price you will receive for your milk is a blend of classes, components, quota, and non-quota values. It is the only state with its own farm milk pricing system. The state is ____________.
    a. Wisconsin
    b. Texas
    c. New Mexico
    d. California

15. There are four classes of milk under Federal Orders, and they provide for
    a. classification according to the relative safety of each class
    b. payment for milk according to its quality
    c. payment for milk according to its cost of production
    d. payment for milk according to its end use
16. What is the most popular type container used for fluid milk?
   a. Glass
   b. Paper
   c. Plastic
   d. Pouch

17. What is the most popular size container used for fluid milk?
   a. Gallon
   b. Half Gallon
   c. Quart
   d. Five quart bulk

18. "Cultured" in front of the name of a milk product indicates:
   a. Product is older and more mature
   b. Product is highly refined
   c. Product has appropriate bacteria added to it
   d. Product has been through a school and is more expensive

19. _________ percent of all milk produced in the U.S. is sold to dairy processing plants.
   a. 97
   b. 98
   c. 99
   d. 100

20. By FDA definition of an imitation product, which of the following is NOT true?
   a. Tastes like the real product it represents
   b. Has the same nutritional value as the real product it replaces
   c. Looks like the real product it represents
   d. Imitation products are not regulated by the FDA

21. Chemical sanitizers containing _________ are most widely used for sanitizing milking equipment.
   a. Bromine
   b. Saline
   c. Chlorine
   d. Iodine

22. Milk found in cows with a high somatic cell count would result in a decrease in _________.
   a. Butterfat
   b. Whey protein
   c. Casein
   d. Trace minerals

23. Milk is a good supplier of minerals except for _______.
   a. Magnesium-Iron-Manganese-Copper
   b. Riboflavin-Magnesium-Lactose-Manganese
   c. Phosphorus-Copper-Zinc-Calcium
   d. Potassium-Boron-Iron-Calcium
24. Water added to milk is detected by checking the_____.
   a. Acid degree value
   b. Sediment content
   c. Titratable acidity
   d. Freezing point

25. Milk with low total solids will produce what off-flavor?
   a. Flat
   b. Malty
   c. Salty
   d. Acid

26. A cryoscopy is an important tool that test for_________ in milk.
   a. Butterfat
   b. Antibiotics
   c. Pesticides
   d. Added water

27. Milk is the only source of_________ in nature.
   a. Calcium
   b. Phosphorous
   c. Lactose
   d. Fatty acids

28. The microbiological standard for Grade A raw milk at the producer farm is_____ bacteria or less per milliliter of milk.
   a. 50,000
   b. 100,000
   c. 150,000
   d. 200,000

29. The somatic cell count standard for Grade A raw milk is_____ or less per milliliter of milk.
   a. 500,000
   b. 750,000
   c. 1,000,000
   d. 1,500,000

30. Fluid milk contains an average of_____ percent solids.
   a. 9
   b. 11
   c. 13
   d. 15

31. ___________ cause(s) flavors in milk such as acid, high acid, or sour milk.
   a. Chemical adulterants
   b. Microorganisms
   c. Sediment
   d. Weeds
32. About _______ of the calcium available in the food supply is provided by milk.
   a. 65%
   b. 50%
   c. 75%
   d. 95%

33. Lactobacillus bulgaricus and Streptococcus thermophilus are examples of ________.
   a. Spoilage bacteria
   b. Lactic acid producing bacteria
   c. Odor producing bacteria
   d. Yeasts and molds

34. The decision of a milk hauler to accept or reject milk at the producing farm
   a. Depends on knowledge of milk quality and ability to smell off odors
   b. Must always be confirmed by tests for acidity
   c. Must be made the day before pickup is scheduled
   d. All of the above

35. With the exception of ________, all of the following off flavors of milk are caused by bacteria.
   a. Bitter
   b. Malty
   c. Yeasty
   d. Salty

36. The Grade A Pasteurized Milk Ordinance (PMO) specifies requirements for the production of Grade A
   raw milk for pasteurization and is recommended by ________.
   a. The Food and Drug Administration
   b. The Small Business Administration
   c. The U.S. Department of Agriculture
   d. The National Committee on Milk

37. In Federal order markets, milk sold for consumption in fluid form is in __________.
   a. Class IV
   b. Class III
   c. Class II
   d. Class I

38. Milk covered by Federal milk marketing orders is __________.
   a. Grade A
   b. Grade B
   c. Grade C
   d. Grade A, B, C

39. The largest percentage of the U.S. milk supply is utilized in the production of ________.
   a. Cream and specialty sales
   b. Cheese
   c. Frozen dairy desserts
   d. Evaporated, condensed and dry products
40. By definition, a product labeled “milk” must contain not less than _____ percent milk fat.
   a. 0.5%
   b. 2.0%
   c. 3.25%
   d. correct choice not listed

41. Federal Definitions and Standards of Identity specify that Whole Milk contain not less than _____.
   a. 3.00 percent milkfat and 8.25 percent solids-not-fat
   b. 3.50 percent milkfat and 8.50 percent solids-not-fat
   c. 3.50 percent milkfat and 8.00 percent solids-not-fat
   d. 3.25 percent milkfat and 8.25 percent solids-not-fat

42. Cheddar cheeses sold in the United States, which are not made from pasteurized milk, must be ripened at least ________ days.
   a. 30
   b. 60
   c. 120
   d. 150

43. The milk in what class receives the highest price in the market?
   a. Class I
   b. Class II
   c. Class III
   d. Class IV

44. Flavors of milk may be caused in general by _____________.
   a. Water content of the milk
   b. Temperature that milk is stored
   c. Feeds consumed by the cow
   d. Amount of sunlight the cow receives

45. The major cause of the salty flavor in milk is _____________.
   a. The large intake of salt by the cow
   b. Associated with sunlight exposure
   c. Mastitis
   d. Bacteria

46. ____________ is a test for rancidity.
   a. Acid degree value
   b. Cryoscope
   c. Disc assay
   d. Titratable acidity

47. The four primary taste sensations are _____________________.
   a. Bitter, metallic, sour, sweet
   b. Bitter, salt, sour, sweet
   c. Metallic, salt, sour, sweet
   d. Burnt, bitter, salt, sour
48. Lactose is the principal ________ in milk.
   a. Fat
   b. Protein
   c. Carbohydrate
   d. Mineral

49. The two most important diseases of cattle transmissible to man through milk are ________.
   a. Tuberculosis and brucellosis
   b. Brucellosis and scarlet fever
   c. Scarlet fever and Q fever
   d. Tuberculosis and anthrax

50. A consumer found an off-flavor in milk packaged in transparent plastic and exposed to high intensity fluorescent light. The off-flavor probably was
   a. High acid
   b. Bitter
   c. Oxidized
   d. Rancid (lipolyzed)

51. Which group of flavors cannot be detected by odor?
   a. Bitter, salty
   b. High acid, rancid
   c. Feed, garlic/onion
   d. Metallic/oxidized, malty

52. The components of milk responsible for richness and sweetness, in this order are:
   a. Minerals and lactose
   b. Milk fat and milk sugar
   c. Casein and lactalbumin
   d. Nonfat solids and lactic acid

53. The California Mastitis Test is done to:
   a. See if a cow has an infection
   b. Check for bacteria in milk
   c. Determine whether mammary glands are inflamed
   d. Check for mastitis-producing bacteria in the bulk milk

54. Federal regulations state that ice cream must have at least _____ milkfat, the single most important ingredient,
   a. 4.5%
   b. 8.5%
   c. 10%
   d. 12%

55. The off flavor most likely to be found in milk that has not been cooled properly is:
   a. Sour
   b. Rancid
   c. Oxidized
   d. Bitter
56. The Babcock test is a rapid, simple and accurate test for:
   a. Water in milk
   b. Titratable acidity
   c. Fat content
   d. Nonfat milk solids content

57. The two dairy product categories that require the highest amount of raw milk from the U.S. supply are:
   a. Ice cream and fluid milk products
   b. Fluid milk products and cheese
   c. Butter and non fat dry milk
   d. Cheese and ice cream products

58. A system of fairly distributing payment among producers in a Federal Milk Market is called:
   a. Pooling
   b. Take-off, pay-back
   c. Base-excess pricing
   d. Seasonal incentive

59. Milk marketing cooperatives:
   a. Are not permitted by Federal Orders
   b. Provide marketing power for dairy farmers
   c. Control Federal Orders
   d. Operate only outside Federal Orders

60. Each Federal Milk Marketing order is administered by a representative of the:
   a. Secretary of Agriculture of the U.S.
   b. Secretary of commerce of the U.S.
   c. Secretary of Treasury of the U.S.
   d. Secretary of the U.S. Food and Drug Administration

61. It takes approximately ______ lbs. of whole milk to make one pound of whole milk cheddar cheese.
   a. 5
   b. 10
   c. 13
   d. 22

62. Federal Milk Marketing Orders are a mechanism for:
   a. The most economical utilization of milk
   b. Finding a market for every producer’s milk
   c. Economical transportation of milk
   d. Market stabilization

63. For the maximum intake of calcium, one should consume______.
   a. Whole Milk
   b. 2% Milk
   c. 1% Milk
   d. Skim Milk
64. When pasteurizing milk, the minimum that raw milk must be heated to for 15 seconds is
   a. 111° F
   b. 121° F
   c. 161° F
   d. 171° F

65. It requires approximately _______ pounds of skim milk to make one pound of nonfat dry milk.
   a. 22
   b. 13
   c. 11
   d. 6

66. The quantity of milk used to produce 1 pound of buttermilk depends chiefly upon the _______.
   a. Protein content
   b. Solids-non-fat content
   c. Bacteriology content
   d. Milk fat content

67. The CMT should be read within _____ seconds.
   a. 40
   b. 30
   c. 20
   d. 10

68. The application of heat to milk for the purpose of preservation, with the extra benefit of the
   protection of public health, continues to develop. Innovative methods are now available for
   processing milk at ______ with only fractions of a second holding times.
   a. Aseptic processing
   b. Ultra high temperatures
   c. Sterilization
   d. High temperature short time

69. Pasteurization is the process of heating every particle of milk and milk products to the minimum
   required _______ and holding it continuously for the minimum required _______ in equipment that is
   properly designed and operated.
   a. Temperature and length
   b. Time and temperature
   c. Temperature and time
   d. Time and length

70. The major reason milk from cows treated with antibiotics must be withheld from the milk supply is
    because _______.
    a. A large proportion of the human population is sensitive to antibiotics
    b. Antibiotics increase the somatic cell count of milk
    c. Antibiotics cause an off-flavor in milk
    d. Antibiotics kill some of the good bacteria found in milk

71. When cows have mastitis, the protein content of milk may be higher, but the cheese yield is lower
    because of a decrease in _______ protein.
    a. Lysine
    b. Casein
    c. Tryptophan
    d. Whey
72. Besides calcium, milk contains ______, a mineral that is found in brain tissue, muscles, teeth and bones.
   a. Phosphorous  
   b. Iron  
   c. Chlorine  
   d. Zinc

73. As with grade A milk, ______ adopts and enforces regulations to control milk used for the manufacturing of milk products.
   a. The federal government  
   b. Each state  
   c. The large dairy cooperatives  
   d. Each milk marketing orders area

74. A high acid flavor (sour) in milk is caused by ______.
   a. Growth of bacteria in the milk  
   b. Exposure of cows to acid rain  
   c. Drinking hard water  
   d. Absorption of acid from corn silage

75. Milk protein contains _____ of the essential amino acids and in appreciable amounts.
   a. 25%  
   b. 50%  
   c. 75%  
   d. 100%

76. The CMT test results that indicate a somatic cell count of 400,000 to 1,500,000 are _____.
   a. Mixture thickens with slight gelation  
   b. Viscous gel forms, mass adheres to paddle  
   c. Distinct precipitate forms, but no gel  
   d. Slight precipitate forms and tends to disappear

77. In order to gain bargaining power, milk producers have formed _____ to manufacture milk products and market them directly.
   a. Manufacturing coops  
   b. Supply coops  
   c. Marketing coops  
   d. Consumer coops

78. To reduce the feed flavor in milk to acceptable levels, cows should be removed from offending feeds _____ hours before milking.
   a. 1-2  
   b. 2-4  
   c. 4-6  
   d. 6-8

79. Milk used for _____ is Class I Milk.
   a. Cottage cheese  
   b. Ice milk  
   c. Provolone cheese  
   d. Fluid milk products
80. A large portion of the population is sensitive to the antibiotic _____.
   a. Streptomycin
   b. Penicillin
   c. Terimyacin
   d. Ampicillin

81. _____ is the cause of the rancid flavor in milk.
   a. Feeding high moisture corn
   b. Feeding haylage
   c. Storing milk in the sunlight
   d. Extreme agitation of raw milk

82. Whole milk contains _____ percent protein.
   a. 1.5-2.5
   b. 2.5-3.5
   c. 3.5-4.0
   d. 4.0-4.5

83. To separate the aqueous and fat in the final stage of the Babcock test, a _____ is used.
   a. Hot water bath
   b. Centrifuge
   c. Sulfuric acid bath
   d. Colloidal component

84. Which of the following is not an objective of milk evaluation?
   a. Determining the presence of desirable characteristics
   b. Determining one brand of milk from another
   c. Determining whether one sample differs from another
   d. Determining presence and magnitude of undesirable characteristics

85. Milk, including skimmed used in fluid milk products, is Class ___ and receives the highest price.
   a. I
   b. II
   c. III
   d. IV

86. One gallon of milk weighs _____ pounds.
   a. 8.8
   b. 8.2
   c. 8.4
   d. 8.6

87. Federal milk marketing orders were established in _____.
   a. 1917
   b. 1927
   c. 1937
   d. 1947

88. To add mold to the blue cheese, it is mainly _____________.
   a. Injected into the cheese
   b. Grown on the cheese
   c. Mixed in the whey mixture
   d. None of the above
89. Some streptococci that produce lactic acid also produce certain aldehydes, which impart a _____ flavor.
   a. Malty
   b. Bitter
   c. Salty
   d. Metallic

90. By using a _____ with plastic beads of varying density, nonfat solids in milk can be rapidly estimated.
   a. Lactometer
   b. Hydrometer
   c. Humidoscope
   d. Polyscope

91. Milk meeting the highest sanitary requirements is known as Grade ______.
   a. A
   b. AA
   c. AAA
   d. AAAA

92. The major cause of mastitis infections are _____ infections
   a. Actinomycosis
   b. Virus
   c. Coliform
   d. Bacterial

93. The two main proteins in milk are ____ and ____.
   a. Lactose, Lactalbumin
   b. Casein, Lactalbumin
   c. Ascorbic, Thiamin
   d. Colgate, Casein

94. What is the largest cost on most U.S. dairy farms?
   a. Feed
   b. Fuel
   c. Labor
   d. Veterinary

95. Pasteurization was developed in _____ as a heat treatment to preserve food.
   a. 1890
   b. 1920
   c. 1930
   d. 1946

96. _________ is a milk process that makes milk more easily digested by those with a sensitive digestive system.
   a. Ionization
   b. Evaporation
   c. Pasteurization
   d. Homogenization
97. __________ amino acids are commonly found in milk proteins, including the essential amino acids.
   a. 7
   b. 12
   c. 14
   d. 19

98. Continued low calcium intake may result in ______ in adults.
   a. Cavities
   b. Nerve irritability
   c. Loss of genetic height potential
   d. Osteoporosis

99. Summer milk has been estimated to contain 1.6 times as much vitamin ____ as winter milk.
   a. A
   b. B
   c. C
   d. D

100. The number of Federal milk marketing orders in the United States is
    a. 1 to 2
    b. 6 to 7
    c. 15 to 16
    d. 20 - 21

101. _____ is the process of killing all microorganisms.
    a. pre-cleaning
    b. contamination
    c. sterilization
    d. sanitation

102. S. M. Babcock developed the Babcock Test in ____.
    a. 1960
    b. 1941
    c. 1917
    d. 1890

103. Bangs Disease is another name for ____.  
    a. Q-fever
    b. undulant fever
    c. tuberculosis
    d. brucellosis

104. By regulation, milk from cows treated with antibiotics usually must be withheld for ____ hours.
    a. 48 – 72
    b. 30 – 60
    c. 48 – 108
    d. 72 – 96

105. Rules developed by the _____ are designed to protect the health and welfare of consumers.
    a. United States Department of Agriculture (USDA)
    b. Protein and Lactose Organization (PLO)
    c. Future Farmers of America (FFA)
    d. Food and Drug Administration (FDA)
106. Milk is sold in units of _____ by the producer to the handler.
   a. pounds
   b. gallons
   c. cwt
   d. ton (s)

107. Milk producers have formed _____ to gain bargaining power.
   a. direct marketing systems
   b. cooperatives
   c. marketing clubs
   d. cost of production organizations

108. What is the test used to screen for antibiotics in milk?
   a. direct microscope
   b. Charm
   c. Kjeldahl
   d. cryoscope

109. The California Mastitis Test (CMT) asks that you use only ______________ milk.
   a. colostrum
   b. milk after “dry-off”
   c. the first stream during milking
   d. the second stream during milking

110. Class II manufactured dairy products are used in soft manufactured products such as
   a. butter and cheddar cheese
   b. cream products, cottage cheese, and ice cream
   c. fluid whole milk, fluid low fat and skim milk, and flavored milk
   d. half-and-half

111. Under which of the following weather conditions would you expect to observe the greatest decrease in milk yield per cow?
   a. cold and dry
   b. hot and humid
   c. cool and humid
   d. warm and dry

112. Although milk from the cow is processed, it is not an engineered or fabricated food and contains about _______ % solids.
   a. 3.5
   b. 13
   c. 76
   d. 87

113. Removing cows from green grass or silage four hours prior to milking, can minimize or eliminate which flavor defect in milk?
   a. flat
   b. feed
   c. bitter
   d. high acid
114. Purple color that results from CMT test is generally more intense in samples from infected quarters, because such samples have a __________pH.
   a. alkaline  
   b. acid  
   c. neutral  
   d. no correct answer listed

115. Dairy cows need _________ day dry periods for rejuvenation of secretary tissue and restoration of body condition.
   a. 30  
   b. 60  
   c. 90  
   d. 120

116. The annual average milk production per cow is nearly ________________?
   a. 8800 quarts  
   b. 7950 quarts  
   c. 7800 quarts  
   d. 6880 quarts

117. Mandatory animal drug residue testing was established in _______.
   a. 1948  
   b. 1988  
   c. 1993  
   d. 2000

118. Federal milk marketing orders reformed; component pricing introduced in _______.
   a. 1948  
   b. 1988  
   c. 1993  
   d. 2000

119. Contains not less than 18 percent milkfat, but less than 30 percent.
   a. Half-and-Half  
   b. Light Whipping Cream  
   c. Milk  
   d. Light Cream

120. Contains not less than 30 percent milkfat, but less than 36 percent milkfat.
   a. Half-and-Half  
   b. Light Whipping Cream  
   c. Milk  
   d. Light Cream

121. Contains not less than 36 percent milkfat.
   a. Half-and-Half  
   b. Light Whipping Cream  
   c. Heavy Cream  
   d. Light Cream
122. California’s milk production accounts for about ____ of all U.S. farm milk production. (2015)
   a.  10%
   b.  20%
   c.  30%
   d.  40%

123. To make one pound of butter, it requires approximately _____ pounds of whole milk.
   a.  21.8
   b.  9.8
   c.  7.4
   d.  11

124. To make one pound of whole milk cheese, it requires approximately _____ pounds of whole milk.
   a.  11
   b.  7.3
   c.  21.8
   d.  9.8

125. The U.S. farm milk production volume reached a record ______ pounds in 2015.
   a.  196.3 billion
   b.  200.3 billion
   c.  206.0 billion
   d.  208.6 billion

126. The two states that led the nation in “milk production per cow” in 2015 were:
   a.  California and Wisconsin
   b.  New Mexico and Colorado
   c.  Colorado and Michigan
   d.  Michigan and New Mexico

127. The top ten states accounted for more than ____ of all US farm milk production. (2015)
   a.  63.8%
   b.  73.5%
   c.  83.8%
   d.  93.5%

128. The Top 5 milk states (2015) in milk production include all except:
   a.  Wisconsin
   b.  Idaho
   c.  Pennsylvania
   d.  Texas

129. In total, the top twenty milk producing states accounted for nearly ____ of all U.S. farm milk production in 2015.
   a.  71%
   b.  81%
   c.  89%
   d.  91%
130. How many dairy cows are in the US? (2015)
   a. 8.16 million
   b. 9.16 million
   c. 9.32 million
   d. 10.32 million

131. California averaged ______ pounds of milk per dairy cow in 2015.
   a. 22,002
   b. 23,002
   c. 23,402
   d. 23,502

132. The number of dairy herds licensed to sell milk in the U.S. continues to ______ each year. (2015)
   a. remain steady
   b. increase
   c. decrease
   d. remain unchanged

133. For decades the U.S. dairy industry had seen total sales of fluid milk products remain at about the same level despite population growth. However at just over ______ billion pounds, total beverage milk sales in 2015 were the _______ since 1963.
   a. 50.1 / lowest
   b. 50.1 / steadiest
   c. 60.1 / highest
   d. 60.1 / steadiest

134. There were over _____ million gallons of ice cream produced in the U.S. in 2015.
   a. 522
   b. 622
   c. 897
   d. 997

135. Just over _____ billion gallons of total frozen dairy products was produced in the United States in 2015.
   a. 1.49
   b. 1.54
   c. 1.7
   d. 1.87

136. Federal regulations state that gourmet or super-premium ice creams must have at least _____ milkfat.
   a. 4.5%
   b. 8.5%
   c. 10%
   d. 12%

137. Currently, more than _____ of all milk produced each year in the U.S. is used to manufacture cheese.
   a. 1/4
   b. 1/3
   c. 1/2
   d. 3/4
138. For the twenty-third straight year, total U.S. production of natural cheese set a record level in 2015 with ______ billion pounds of cheese.
   a. 9.15
   b. 10.80
   c. 11.84
   d. 12.1

139. Leading state in cheese production is ____________.
   a. California
   b. Wisconsin
   c. Idaho
   d. Washington

140. Leading state in milk production is ____________.
   a. California
   b. Wisconsin
   c. Idaho
   d. Washington

141. The number one American-type cheese produced in the U.S. is ____________.
   a. Monterey Jack
   b. Mozzarella
   c. Cheddar
   d. Provolone

142. The number one Italian-type cheese produced in the U.S. is ____________.
   a. Monterey Jack
   b. Mozzarella
   c. Cheddar
   d. Provolone

143. There are over ____ varieties of cheese sold in the U.S.
   a. 150
   b. 300
   c. 450
   d. 500

144. Americans consume an average of ____ pounds of cheese each year. (2015)
   a. 29.7
   b. 32.7
   c. 33.33
   d. 35.33

145. Americans (per capita consumption) drink an average of _____ gallons of milk each year. (2015)
   a. 15.21
   b. 18.21
   c. 20.21
   d. 25.0
146. The cheese category that posted record production levels in 2015 was:
   a. American
   b. Italian
   c. Other
   d. All of the Above

147. U.S. per capita consumption of whole milk in 2015 was ____ pounds.
   a. 35.4
   b. 45.4
   c. 48.4
   d. 52.4

148. Nearly ____ of all the 2015 production of frozen desserts was regular ice cream.
   a. 50
   b. 55%
   c. 60%
   d. 70%

149. The average annual expenditure of dairy products per household in 2015 was:
   a. $320
   b. $380
   c. $413
   d. $513

150. The 2015 Milk-Feed Price Ratio (value of milk in relation to the cost of dairy feed; the higher the ratio, the higher the value of milk is to the cost of feed) was _______. *(lowest since 2010)*
   a. 1.52
   b. 1.88
   c. 2.13
   d. 2.40

151. The dairy product per capita consumption with the highest % change from ’14 to ’15 was __________.
   a. Yogurt (+4.8%)
   b. Regular Ice Cream (+4.8%)
   c. Italian Style Cheese (+4.8%)
   d. Buttermilk (+4.8%)

152. The dairy product per capita consumption with the lowest % change from ’14 to ’15 was __________.
   a. Sour Cream (-11.4%)
   b. Eggnog (-11.4%)
   c. Fat Free White Milk (-11.4%)
   d. Buttermilk (-11.4%)

153. The 2015 per capita consumption of cheddar cheese _______ ____ to/at 10.16 pounds.
   a. increased by 12%
   b. decreased by 3.3%
   c. increased by 3.3%
   d. remained steady
154. What country consumed per capita the most (pounds) fluid milk (2015)?
   a. New Zealand
   b. Australia
   c. Ukraine
   d. United States

155. The number of dairy cow herds in 2015 licensed to sell milk in the United States is ________.
   a. 46,975
   b. 44,809
   c. 43,584
   d. 42,878

156. Continuous centrifugal cream separator invented by _______ in 1878.
   a. Dr. Gustav De Laval
   b. Dr. Hervey D Thatcher
   c. Dr. SM Babcock
   d. Dr. Henry L. Coit

157. Certified milk originated by __________ in 1892.
   a. Dr. Gustav De Laval
   b. Dr. Hervey D Thatcher
   c. Dr. SM Babcock
   d. Dr. Henry L. Coit

158. What are the two most popular TYPE of cheeses produced in the US?
   a. American and Monterey Jack
   b. American and Cheddar
   c. Cheddar and Mozzarella
   d. American and Italian

159. What is the leading VARIETY of cheese produced in the US?
   a. American and Monterey Jack
   b. American and Cheddar
   c. Cheddar and Mozzarella
   d. American and Italian

160. In 2015 the U.S.’s top three trading partners (exports) for cheese were
   a. China, Canada, Japan
   b. Mexico, South Korea, Canada
   c. China, Mexico, Japan
   d. Mexico, South Korea, Japan

   a. 1.2
   b. 1.7
   c. 1.8
   d. 2.8

162. What country consumed per capita the most (pounds) cheese (2015)?
   a. New Zealand
   b. European Union - 28
   c. Ukraine
   d. United States
163. Which country has the greatest number of production milk cows in the world?
   a. India
   b. Mexico
   c. United States
   d. European Union

164. What dairy product is the result from the addition of lactic acid-producing bacteria to pasteurized cream?
   a. Half-and-Half
   b. Sour Cream
   c. Heavy Cream
   d. Light Whipping Cream

165. What dairy product is the result of removing water from pasteurized skim milk?
   a. Sweetened Condensed milk
   b. Half-and-Half
   c. Evaporated milk
   d. Nonfat dry milk

166. What dairy product is the result of adding a creaming mixture (dressing) to dry curd cottage?
   a. Butter
   b. Frozen Yogurt
   c. Cheese
   d. Cottage Cheese

167. What does IDFA stand for?
   a. Internal Dairy Functions Association
   b. Institution of Dairy Foods Association
   c. International Dairy Foods Association
   d. International Dairy Founders Association

168. The most consumed types of cheeses in the U.S. are ________________?
   a. Cheddar and Monterey Jack
   b. Mozzarella and Monterey Jack
   c. Mozzarella and Swiss
   d. Cheddar and Mozzarella

169. In terms of total dairy export dollar sales, ______ was the largest in 2012 with over $1.3 billion in value.
   a. cheese
   b. non-fat dry milk
   c. fluid milk
   d. whey

170. The U.S. dairy industry exports fell to ______ in 2015 compared to record levels set in 2014.
   a. $4.8 billion
   b. $5.2 billion
   c. $6.7 billion
   d. $7.1 billion
171. Milk is _____ water and _____ solids  
   a. 85%, 15%  
   b. 3.7%, 9%  
   c. 9%, 3.7  
   d. 87%, 13%  

172. As it comes from the cow, the solids portion of milk contains approx _____ fat and _____ solids-non-fat.  
   a. 13%, 85%  
   b. 9%, 3.7%  
   c. 2%, 11%  
   d. 3.7%, 9%  

173. What country consumes per capita the most (pounds) butter (2015)?  
   a. New Zealand (10.5 lbs)  
   b. Australia (10.5 lbs)  
   c. Belarus (10.5 lbs)  
   d. United States (10.5 lbs)  

   a. $3.4  
   b. $6.4  
   c. $8.4  
   d. $9.4  

175. The U.S. milk output per cow set a record of ________ per cow in 2015.  
   a. 21,697 lbs  
   b. 22,258 lbs  
   c. 22,393 lbs  
   d. 24,697 lbs  

176. Milk and milk products have played an important role in America’s history since ____ when the first cows were brought to Jamestown, Virginia.  
   a. 1776  
   b. 1492  
   c. 1611  
   d. 1652  

177. Milk contains which of the following nutrients?  
   a. Phosphorous  
   b. Calcium  
   c. Magnesium  
   d. All of the above  

178. How many servings of milk group foods should an adult consume daily?  
   a. 4  
   b. 3  
   c. 2.5  
   d. 2
179. How many servings of milk group foods should children (1-8 yrs) consume daily?
   a. 4
   b. 3
   c. 2.5
   d. 2

180. What outlet sold the most cheese last year?
   a. Foodservice
   b. Retail
   c. Food processing
   d. Both A and B were equal

181. In general, one gallon of ice cream requires approximately ___ lbs of whole milk and 1 lb of cream.
   a. 2
   b. 4
   c. 6
   d. 8

182. The country outside of the US with the highest milk production per cow at 24,273 lbs/cow is (2015).
   a. South Korea
   b. European Union
   c. Canada
   d. Japan

183. Per capita consumption of yogurt is nearly _____ lbs. (2015).
   a. 11
   b. 12
   c. 15
   d. 16

   a. 2
   b. 3
   c. 4
   d. 5

185. U.S. per capita fluid milk product sales was ______ gallons. (2015)
   a. 17.91
   b. 18.21
   c. 18.62
   d. 19.34

186. The average dairy feed cost per 100 lbs of milk in 2015 was ____?
   a. $7.45
   b. $7.45
   c. $8.08
   d. $9.45
187. Over _____ billion in cheese was exported by the U.S. in 2014.
   a. $1.0
   b. $1.1
   c. $1.2
   d. $1.3

188. The two largest purchasers of US ice cream products in 2014 were ________________.
   a. Mexico and China
   b. China and Canada
   c. Canada and South Korea
   d. Mexico and Saudi Arabia

189. The largest U.S. dairy product import is ______ (2015)
   a. Cheese
   b. Yogurt
   c. Dry Whey Products
   d. Lactose

190. The largest U.S. dairy product export (by value) is ______ (2015)
   a. Cheese and Curd
   b. Non-Fat Dry Milk
   c. Dry Whey Products
   d. Ice Cream and Related Products

191. The country that consumes the most cheese per capita is _____ (2015)
   a. New Zealand
   b. United States
   c. European Union - 28
   d. Australia

   a. Cheese
   b. Ice Cream
   c. Butter
   d. Whey

193. The state with the lowest milk production per cow is ________ (2015)
   a. Alaska
   b. Maine
   c. Arkansas
   d. North Dakota

194. This dairy product is known as “nature’s most nearly perfect food”.
   a. cheese
   b. milk
   c. ice cream
   d. cottage cheese

195. The advancements in ____________ opened up dairy product availability to everyone.
   a. processing
   b. packaging and distribution
   c. refrigeration
   d. all of the above
196. The following improvement areas have resulted in improved methods of selection, breeding, and feeding of dairy cows.
   a. Milking parlors / equipment
   b. Research
   c. Experimentation
   d. Both B and C

197. 100 pounds can be converted to ______.
   a. 1 cwt
   b. 1 ton
   c. 1 kilogram
   d. 1 gallon

198. Which of the following is/are required for milk from a dairy farm to be certified organic?
   a. Cows must not be treated with antibiotics
   b. Insecticides may not have been used
   c. The farm must have been audited by a third party
   d. All of the above

199. The quantity of milk actually used to produce one pound of each product depends chiefly upon the the ______ and nonfat solids content of the milk, which varies both geographically and seasonally.
   a. milkfat
   b. water
   c. protein
   d. calcium

200. ______ is characterized by an intense flavor and is served in a semi-frozen state. It contains sweeteners, milk, cream, egg yolks, and flavoring.
   a. Frozen custard
   b. Sorbet
   c. Gelato
   d. Frozen yogurt