1. One of the earliest cultures to use flowers were the Egyptians. They valued ______ and ________.
   A. Simplicity with variation
   B. Majestic and lavish
   C. Simplicity and repetition
   D. Ornate with gothic tone

2. __________ play a powerful role in advertising floral shops and in most locations leads all other media in sales return for dollar spent.
   A. Telephone Sales
   B. Newspapers
   C. Window displays
   D. Radio spots

3. The following is not a characteristic of an insect:
   A. Two tentacles
   B. Six legs
   C. Two pairs of wings
   D. Three segmented body

4. A hue with white added is:
   A. Tone
   B. Chroma
   C. Tint
   D. Accent

5. Heavy-headed flowers, such as large mums, often bend by the flower head, nearly breaking off. What should be done to temporarily improve this situation?
   A. Use wire to tie flower head on
   B. Insert toothpicks pointed through the bloom into the stem
   C. Use string to tie flower head on
   D. Use hot glue gun to glue flower head on

6. The treatment given Easter lilies to speed flowering is called:
   A. Drying off
   B. Long days
   C. Precooling
   D. Short days

7. Damping-off disease of seedlings is caused by:
   A. Bacteria
   B. Virus
   C. Fungus
   D. Fertilizer

8. The measure of how poisonous a chemical is after a single exposure is __________ toxicity.
   A. Chronic
   B. Bad
   C. Acute
   D. Accurate
9. In order to survive in the florist business, an owner/manager must be able to determine the true value of the product and strive for improvement of the perceived value. This is called
   A  Retail pricing
   B  Profit pricing
   C  Premium pricing
   D  Discount pricing

10. The larger the gauge of florist wire indicates that the thickness is:
    A  Thicker
    B  Thinner
    C  Longer
    D  Shorter

11. A floral arrangement should be finished on all sides if it is to be placed:
    A  On a mantle
    B  In front of a mirror
    C  Against a wall
    D  On a bookcase

12. Hanging plants used in interior landscapes function to:
    A  Keep people from sitting on the edges of plants
    B  Float in water features
    C  Smooth squared edges found in the architecture
    D  Hide tall, ugly equipment

13. Most indoor foliage plants need which kind of lighting?
    A  Direct sunlight
    B  Bright indirect light
    C  Medium light
    D  Bright light

14. Mass production techniques can often be used for all of the following arrangements except
    A  Monthly in store promotions
    B  Corsages for a large wedding
    C  Holiday designs through the wire service
    D  A walk in customer’s anniversary flowers

15. Appropriate refrigeration of cut floral materials involves both temperature and humidity control to:
    A  Increase microbial growth and development
    B  Slow down respiration
    C  None of the above
    D  Increase water lost by transpiration

16. The acceleration of flowering by manipulation of environmental conditions is known as:
    A  Leaching
    B  After-ripening
    C  Pulsing
    D  Forcing
17. Growing medium kept too wet will deprive plants of:
   A Soluble salts
   B Oxygen
   C Fertilizer
   D Water

18. When designing a floral arrangement, after the container has been prepared, one should:
   A Begin filling in
   B Establish the focal point
   C Establish the lines
   D Drain out all the water

19. Which type of rose has multiple large flowers on a single stem?
   A Grandifloras
   B Floribundas
   C Hybrid teas
   D Polyanthas

20. A ________ gauge wire is most commonly used for funeral work.
   A 24
   B 3
   C 28
   D 18

21. An example of a mass flower is:
   A Liatris
   B Rose
   C Larkspur
   D Snapdragon

22. This design is the easiest for a beginner because it does not require a focal point.
   A Symmetrical
   B Round
   C Cascade
   D Asymmetrical

23. Demographics can help a florist plan
   A How much local wholesalers will charge
   B Which software program will be most effective
   C How to calculate sales tax and report income tax
   D The type of hard goods they should keep in stock

24. Costs associated with making an arrangement, decorating a blooming plant, or creating wedding flowers are called ________.
   A Overhead
   B Fixed costs
   C Indirect costs
   D Direct costs
25. A method of applying pesticides to plants that can be effectively used in greenhouse but not outdoors is:
   A  Fumigation
   B  Spraying
   C  Dusting
   D  Soil drenching

26. The pH on soil test results stands for:
   A  Acidity
   B  Potential oxygen
   C  Potential hydrogen
   D  Alkalinity

27. Analogous color harmony utilizes:
   A  Tints, shades and tones of one hue
   B  Two colors directly opposite each on the color wheel
   C  Two or three adjacent colors on the color wheel
   D  A combination of the primary and secondary colors

28. Commercial flower crops are sometimes watered to cause leaching. This means:
   A  Watering by subsurface methods
   B  Watering to spread fertilizer nutrients more evenly throughout the plant root system
   C  Watering only to wet the top 1/3 of the growing medium
   D  Watering to remove excess soluble salts from the growing medium

29. When is the best time to divide a mature chrysanthemum?
   A  When it is dormant in the winter
   B  After blooming in the fall
   C  When the plant is not blooming during the summer
   D  When it is about three inches tall in the spring

30. The three critical responsibilities of a manager in a flower shop include all of the following except
   A  Controlling the buying, use, and sale of products
   B  Advertising and networking the shop
   C  Oversee the flow of money into and out of the business
   D  Supervise people

31. The most important cut flower crops in the US are:
   A  Gladiolus, orchids, gardenia
   B  Mum, rose, carnation
   C  Rose, snapdragon, gladiolus
   D  Carnation, rose, orchid

32. All of the following processes will help speed the opening of buds, except
   A  Placing stems in water with bud opening solutions
   B  Stems should be placed in an environment with 60-80% humidity
   C  Stems should be placed in warm temperatures between 70-80 degrees
   D  Misting stems with cold water
33. **Hydrangeas are forced for the following holidays:**
   A  Thanksgiving, Christmas, Valentine's Day
   B  Easter, Mother's Day, Memorial Day
   C  Memorial Day, July 4th, Labor Day
   D  Secretary's Day, Sweetest Day, President's Day

34. **An organism capable of causing a disease is called:**
   A  A cambium
   B  An enzyme
   C  A Pathogen
   D  A systemic

35. **The term "texture", as it applies to plants, includes such adjectives as:**
   A  Entire, serrate, and lobed
   B  Smooth, fuzzy and spiny
   C  Corymb, umbel and panicle
   D  Fine, medium and coarse

36. **Which of the following describes a good plant watering practice?**
   A  Allowing water to penetrate throughout the pot
   B  Waiting until plant leaves wilt to water
   C  Allowing the plant to stand in water
   D  Keeping soil constantly wet

37. **Mass marketing is the sale of floral products:**
   A  In large discount stores
   B  All of these
   C  In high-traffic locations
   D  In the supermarkets

38. **The reason for putting irregularly shaped stones or broken pieces of pottery into the bottom of a pot containing flowering plants is:**
   A  It helps the soil to drain after being watered
   B  They allow the roots to grow out of the bottom of the pot
   C  Its just an old tradition passed down from person to person and does not help the plants
   D  They let air into the pot from the bottom

39. **Potted plants can be dressed up to add value to an order by using all of the following, except.**
   A  Cellophane
   B  Baskets
   C  Speed covers
   D  Polyfoil or florists' foil

40. **___________ is a postharvest technique used to load or fill flowers with sugar and other chemicals, giving them "strength" before they are dry-packaged and shipped long distances.**
   A  Hardening
   B  Conditioning
   C  Pulsing
   D  Bud-Opening Solution
41. These summer-blooming perennials produce dense, bristly balls of blue color:
   A Globe thistle
   B Blue plumbago
   C Statice
   D Delphinium

42. Costs associated with making an arrangement, decorating a blooming plant or creating wedding flowers are called:
   A Fixed costs
   B Direct costs
   C Overhead
   D Indirect costs

43. What do you NOT do when flowers arrive from the wholesaler?
   A Inspect for damage, overheating, and decay
   B Groom, remove damaged flowers or foliage
   C Mix preservative at recommended rate in 40-50 degree F water
   D Wash buckets with bleach or special floral cleaner

44. When cutting fresh flower stems it is best to cut them with ______________ rather than shears.
   A A pair of scissors
   B A knife
   C A set of loppers
   D Hook and anvil pruners

45. Irregularly shaped holes with smooth edges appear in Celosia leaves. Some leaves are even missing. The plants should be treated for:
   A Leaf cutter bees
   B Crickets
   C Aphids
   D Slugs and snails

46. Upper leaves which show interveinal chlorosis probably suffer from:
   A An iron deficiency
   B Lack of water
   C A sulfur deficiency
   D A nitrogen deficiency

47. Which of the following statements is most correct relating to sales in a floral shop?
   A Internet sales are higher for flower shops that are not located in high-traffic locations.
   B Online-only floral shops are becoming popular among the floral industry.
   C Walk-in sales are guaranteed sales due to impulse buyers.
   D Approximately 80% of sales in a flower shop are made over the telephone.

48. Characteristic floral arrangements of the Renaissance were flowers arranged in vases so that only the __________ were visible.
   A Leaves
   B Stems
   C Blossoms
   D fruits
49. Fertilizer that you add to your flowering plants contains the following elements in the correct order:
   A Potassium, nitrogen, iron
   B Nitrogen, phosphorus, iron
   C Nitrogen, potassium, phosphorus
   D Nitrogen, phosphorus, potassium

50. What is a terrarium?
   A A small dish garden arrangement with plants and cut flowers
   B A container, usually made of glass, that houses one or more live plants
   C None of the above
   D Any potted plant in a decorative cover

51. The pierce wiring technique works best on flowers that have a __
   A Thin Calyx
   B Limp stem
   C Thick Calyx
   D Fuller Bloom

52. Successful advertising to a target audience is based on three profit "P"'s. Which one of the following is not part of the three profit "P"'s?
   A Persuasive
   B Pleasant
   C Planned
   D Persistent

53. The Occidental style of flower arranging began in ____________.
   A Egypt
   B South Korea
   C North Korea
   D Japan

54. A poinsettia crop that is four weeks late in flowering for Christmas was very likely exposed to:
   A Lighting at night
   B A gas leak
   C An herbicide
   D Too much CO2

55. Certain plants are quite suitable for use in terrariums. Which, if any, of the following are suitable for this use?
   A Both of these
   B Creeping fig
   C None of these
   D Needlepoint ivy

56. Deluxe floral foam is used to:
   A Hold heavy stemmed flowers
   B Absorb water quickly
   C Hold soft stemmed flowers
   D Act as a preservative
57. A mum cultivar with a single flower more than 4 inches in diameter, having all lateral buds removed is called a
A Standard mum
B Spray mum
C Disbud mum
D Miniature mum

58. Sales and income revenue are highest for retail flower shops during what part or parts of the year?
A Summer months due to weddings
B Thanksgiving and Christmas seasons
C January to May
D October through May

59. A palmately compound leaf has:
A Parallel venation
B A rachis
C Leaflet
D A midrib

60. Flowers, which are worn by men and pinned on a lapel, are called:
A Falcon corsage
B Potpourri corsage
C Boutonnieres
D Hand-tied bouquet

61. Your orchids are facing a pest problem. The buds, flowers and tender new growth are pitted or stunted. Tiny insects are often visible. A sticky fluid secreted by the insects provides a medium for growth of sooty mold and attracts ants. The most likely problem is __.
A Mealybugs
B Aphids
C Snails and slugs
D Spider mites

62. There are three basic "C" aims for selling in a flower shop. Which of the following is NOT included in the three "C"'s?
A Create an interest
B Contain the cost
C Convince the customer
D Close the sale

63. Which of the following is NOT important for a floral designer to ask when designing arrangements for a specific room?
A How many tables will there be?
B What is the ceiling height?
C What percent of the budget does the room cost
D What size is the room?
64. Air layered plant are removed from the parent plant:
   A  When the plants are sold
   B  Immediately after layering
   C  As soon as the roots are visible
   D  When the roots are four to six inches long

65. A more expensive decorative container into which a potted plant can be set is a:
   A  Rose bowl
   B  Vase
   C  Jardinière
   D  Quick sleeve

66. Plant lice refers to:
   A  Mites
   B  Aphids
   C  Scale
   D  Thrips

67. When black is added to a hue, the resulting color is called a:
   A  Tone
   B  Hue
   C  Shade
   D  Tint

68. Another name for rose stripper is:
   A  Destripper
   B  Dethorner
   C  Deleafer
   D  Clipper

69. As the art of floral design has become more formalized through practice, teaching and writing; there has developed a group of traditional guidelines that are frequently cited by people involved in flower arranging. Which of the following, if any, is part of these traditional guidelines?
   A  Neither of the above
   B  Keep flowers from lining up in distracting patterns
   C  Both of the above
   D  Avoid crossing lines and lines that change abruptly

70. If you have a work related problem that you do not know how to solve, you should take it to your supervisor:
   A  For him/her to solve
   B  To complain about it
   C  After you have tried a solution
   D  With alternative solutions

71. This element is essential for strong stems, strong roots, and deep flower color. A deficiency in plants shows up as weak stems, and a yellowing and browning of leaves at their tips and edges.
   A  Potassium
   B  Nitrogen
   C  Iron
   D  Phosphorus
72. The flower part that contains the pollen is the:
   A Filament  
   B Anther  
   C Ovary  
   D Corolla

73. The stomata of a plant leaf:
   A Must open to allow light to reach the chlorophyll for photosynthesis  
   B Prevent disease organisms from entering the plant  
   C Regulate water vapor loss from the plant  
   D Regulate nutrient entry from foliar fertilizer applications

74. To insure blue color in hydrangeas, you would:
   A Fertilize with magnesium sulfate  
   B Expose the crop to short days and cool nights  
   C Raise the pH level in the soil  
   D Fertilize with aluminum sulfate

75. Honeydew on the leaves and ants crawling around a plant indicate:
   A Fungus  
   B Aphids  
   C Thrips  
   D Slugs

76. The greatest control over the cooling phase of Easter lily production is provided by
   A Commercial care cooling  
   B Fan and pad cooling  
   C Natural cooling  
   D Controlled temperature forcing

77. According to sales figures, what is the most popular cut flower sold in the United States?
   A Rose  
   B Carnation  
   C Poinsettia  
   D Chrysanthemum

78. Size of a casket spray is determined by:
   A Religious affiliation  
   B Budget  
   C Type of flowers in season  
   D Type of casket

79. A florist is most likely to be promptly paid when charged account bills are mailed:
   A Bi-weekly  
   B Monthly  
   C Weekly  
   D The day after purchase
80. When all designs, colors, and flowers have been decided upon by the customer, the sale should be closed with
   A  A hand shake
   B  An invoice of sale
   C  A complete payment
   D  A promise from the florist to deliver the design on time

81. An explant is:
   A  Weed
   B  Plant produced from a leaf
   C  Dead plant
   D  Plant produced from a tissue (meristem)

82. When cutting roses to use indoors or to remove spent blossoms:
   A  Do not leave at least two good leaves of the stem
   B  Make the cut above the first strong, three-leaflet leaf
   C  Cut directly below the first strong, three-leaflet leaf
   D  Cut directly below the first strong, five-leaflet leaf

83. A major problem in standard carnation production resulting in asymmetrical flowers is:
   A  Calyx splitting
   B  High-density spacing
   C  Lack of pinching
   D  Improper fertilization

84. A design that uses a combination of both natural and manmade materials in an unnatural manner to create a new image is called a:
   A  Parallel design
   B  Pave' design
   C  Interpretive design
   D  Line flower

85. The florist's chrysanthemum is a ______________.
   A  Composite inflorescence
   B  Complex hybrid
   C  All of these
   D  Short day plant

86. The term hard good means:
   A  What happens to floral foam after it is used and dries out
   B  Cut flowers are stored at improper temperatures and harden
   C  Nonperishable items used in designing such as containers
   D  Nonperishable items used in designing such as flowers and foliages

87. Cool colors include color combinations like:
   A  Black, white and green
   B  Red, red-orange, orange, yellow-orange, yellow
   C  Blue-green, blue, blue-violet and violet
   D  Yellow, pink and red
88. **Texture in an arrangement refers to:**
   A. The visual path the eye follows when viewing the arrangement
   B. The surface appearance of the arrangement
   C. The shape or silhouette of the design
   D. The blending of components of an arrangement

89. **Color can be used in a design to achieve all of the following except**
   A. Emphasis or focal point
   B. Depth and rhythm
   C. Harmony and unity
   D. Proportion

90. **The pricing method based on 40% of retail selling price is:**
   A. Nesting pricing
   B. Wholesale pricing
   C. Retail cost of goods
   D. Ratio markup

91. **To properly water indoor plants, consider:**
   A. The type of plant
   B. All of the above
   C. Where the plant is growing
   D. The size of the plant

92. **Kitty litter, cornmeal, sand and borax are all types of:**
   A. Stabilizers
   B. Preservatives
   C. Desiccants
   D. Accessories

93. **Pre-formed pot covers used on potted plants are called**
   A. Quick wraps
   B. Speed covers
   C. Mylar tops
   D. Picks

94. **Which of the following is not generally considered part of the Floriculture Industry?**
   A. Potted foliage plants
   B. Commercial cut flower greenhouses
   C. Retail flower shop
   D. Vegetable transplants

95. **The function(s) of floral preservatives is (are) to:**
   A. Supply a bactericide
   B. Acidify the solution
   C. All of these
   D. Provide sugar
96. The characteristics of a formal arrangement include all but one of the following. Identify the characteristic which is NOT normally associated with a formal arrangement.
   A Textures are smooth, shiny or velvety
   B Arrangement may be placed off-center
   C Flowers used include roses, orchids and carnations
   D Arrangement is usually symmetrically balanced

97. If a florist was limited to two tools, the least useful ones to have would be:
   A Sharp knife and floral shears
   B Ribbon and anchor tape
   C Pruning shears and wire cutters
   D Oasis and cardettes

98. When mixing preservatives for cut flowers, the preservative should be mixed in ____________ water.
   A 85-95 degree F
   B 50-60 degree F
   C 100-110 degree F
   D Below 45 degree F

99. All but one of the following is easily suitable for pressing. Which item is NOT suitable for pressing.
   A Pansies
   B Daffodil
   C Dusty miller
   D African violets

100. The number one foliage production state in acres and wholesale value is ___________.
    A Texas
    B Florida
    C Hawaii
    D California

101. The number of flowers usually in a cymbidium orchid corsage is:
    A One
    B Three
    C Four
    D Two

102. When a florist greens an arrangement, they are:
    A Adding in green flowers in honor of St. Patrick’s Day
    B Adding foliage to it so that the mechanics are hidden
    C Adding green dye so that the stems are hidden
    D Removing foliage from the lower stems of the greenery

103. Generally, roses are graded according to __________ of stem.
    A Strength
    B Width
    C Turgidity
    D Length
104. A number 9 florist ribbon is:
A 2" wide
B 7/8" wide
C 2 1/4" wide
D 1 3/8" wide

105. In traditional arrangements, materials with higher visual weight are used lower in the arrangement to create stable effect; they are sunken a little further into the arrangement for depth. Identify the significant principles of design that are related to balance:
A Color & tone
B Stability & depth
C Lighting & distance
D Size & shape

106. What type of water supply do cut flowers need to transport food and to keep the stems stiff?
A Periodic water supply
B Cold water supply
C Constant water supply
D Occasional water supply

107. _______ is generally added to water when processing flowers in a retail floral shop.
A Algaecide
B Insecticide
C Herbicide
D Biocide

108. To develop a focal point you should:
A All the these
B Use form flowers
C Use larger flowers
D Use darker colored flowers

109. The word photoperiod has to do with light:
A Duration
B Quality
C Intensity
D Foot candles

110. A good substitute for sand, this material provides for aeration in the growing media:
A Perlite
B Peat moss
C Compost
D Rock wool

111. The _______ method of wiring is commonly used to wire flowers having large, thickened calyces such as carnations and roses.
A Looping
B Piercing
C Insertion
D Hook
112. _____________ is the useful lifespan of cut flowers.
   A vase life  
   B cooler life  
   C sale period  
   D shelf life

113. The principle of total compatibility of all parts of an arrangement with each other is termed:
   A Rhythm  
   B Harmony  
   C Proportion  
   D Texture

114. A wire service:
   A Is a company that manufactures wires for floral design  
   B Is a service that sends telegrams  
   C is a company that sends sentiments to be attached to wires  
   D Is a clearinghouse of floral order

115. Visual balance is achieved by the proper placement of plant materials according to _____________.
   A Texture and tint  
   B Size and shape  
   C tone and value  
   D Color and size

116. What are two key elements in increasing sales and building wedding business for the retail florist?
   A Promotion and advertising  
   B Planning and preparation  
   C Word of mouth and happy clients  
   D Season and unique designs

117. Japanese style of floral arrangement is known as:
   A Yen  
   B Ikebana  
   C Ikenobo  
   D Yin

118. Specialty cut flowers may be defined as:
   A Cut flowers other than those grown in the field.  
   B Cut flowers other than roses  
   C Cut flowers other than roses, carnations and chrysanthemums  
   D Cut flowers other than carnations, chrysanthemums and gladiolus

119. Focus in floral design refers to:
   A Attraction of the observer's eyes to the outline form of the arrangement  
   B A gradation of sizes of flowers  
   C Attraction of the observer's eye to a central point  
   D Transition from dark to central point
120. **In order to keep potted plant leaves clean, florists should:**
   A  None of the above
   B  Water with a sprayer hose in the store
   C  Wipe leaves with a soft damp towel
   D  Use leaf shine regularly

121. **A flowering pot marketed throughout the year is:**
   A  Poinsettia
   B  Easter Lily
   C  Chrysanthemum
   D  Geranium

122. **__________ is the act of cutting flower stems properly and providing them with the proper treatment at any stage of the distribution process.**
   A  Slicing
   B  Cleaning
   C  Processing
   D  Producing

123. **The bract that encloses a flower cluster is a .**
   A  Quill
   B  Spike
   C  Petal
   D  Spathe

124. **A consumer tracking study over floral trends showed that on average ___ of floral sales, excluding holiday sales, were not for any special occasion.**
   A  0.1
   B  0.8
   C  0.25
   D  50%

125. **Nosegay originated during which period in the history of floral design:**
   A  Baroque
   B  English-Georgian
   C  Renaissance
   D  Victorian

126. **When ordering flowers from a wholesale florist, one should consider the following:**
   A  Availability
   B  Keeping quality
   C  All of these
   D  Price

127. **IPM is an acronym for:**
   A  Intensive pest management
   B  Integrated pest material
   C  Integrated pest management
   D  Intensive pest material
128. The term used to describe an item used in a floral design that will not die is called a(n) ________ item.
   A  Accessory
   B  Expensive
   C  Perishable
   D  Non-perishable

129. A common foliage used for sympathy pieces is
   A  Commodore or Parlor Palm
   B  Flat fern
   C  Lemonleaf
   D  Leatherleaf

130. Transition in a floral arrangement is the process of rhythmic change through progression, sequence, or
   A  Separation
   B  Gradation
   C  Restructuring
   D  Modification

131. There are three main ingredients in floral preservatives. Which of the following is not one of these
    ingredients?
   A  Algaecide
   B  Bactericide
   C  Caking agent
   D  Acidifying agent

132. Distorted flowers characterized by shorter petals, which give the rose a flattened appearance are called:
   A  Flagged
   B  Blind shoots
   C  Deadheads
   D  Bullheads

133. The best way to water potted plants with velvet leaves is:
   A  With a shower setting nozzle on a water hose
   B  By sitting it in a sink and running water over the plant
   C  By placing water in a saucer or liner and allowing the plant to absorb what it needs
   D  By allowing the plant to dry out completely and lightly misting the plant

134. A roll of ribbon is known as _____.
   A  Streamers
   B  A Bolt
   C  A Roll
   D  A Reel

135. The main reason many tropical foliage plants decline indoors is related to:
   A  Humidity
   B  Light
   C  Temperature
   D  Air circulation
136. A person is exposed to the highest concentration of a pesticide during:
   A Mixing
   B Clean equipment
   C Reading directions
   D Application

137. All of the following are bulbous and tuberous-rooted plants except:
   A Dahlias
   B Dutch iris
   C Caladiums
   D Snapdragons

138. The most important environmental factor in orchid culture is:
   A Temperature
   B Watering and water quality
   C Fertilization
   D Light

139. A florist is making a hand-tied bouquet; what contemporary design style will he/she use to unite the materials together?
   A Binding
   B Bundling
   C Banding
   D Wrapping

140. The first major civilization to have professional floral designers was the:
   A Chinese
   B Egyptians
   C Romans
   D Greeks

141. The following florist crops are propagated by cuttings:
   A African violet, cut leaf philodendron, English ivy, Sprengeri asparagus fern
   B Snapdragons, stock, Boston yellow daisy, gardenia
   C Carnation, chrysanthemum, poinsettia, azalea
   D Hydrangea, Easter lily, rose, orchid

142. What nutrient is deficient if the deficiency symptoms are found on older/lower leaves and the plant is dark green or reddish-purple with short, slender stalks?
   A Nitrogen
   B Phosphorus
   C Potassium
   D Iron

143. Which of the following is true regarding rental of common event items such as arches or pillars?
   A Florists should never rent these items
   B They are typically offered free of charge
   C They typically require a deposit and rental fee per item
   D In order to make a profit, the full cost of goods should be charged to the customer for each rental
144. It is important not to keep fruit baskets in the same cooler with fresh flowers because:
A  Ethylene gas from the fruit will cause the flowers to age quickly
B  Florists shouldn't sell fruit - that's the job of the grocery store
C  Banana and apples give off an odor that is absorbed by the flowers
D  Fruit flies eat flower petals

145. This citric acid solution causes flowers to take up water rapidly to prevent dehydration after flowers have been dry packed.
A  Floral Preservative
B  Orange juice
C  Hydrating solution
D  Sanitizer

146. A contemporary design style that uses clustering placed at the base of a design to resemble hills or clouds is known as
A  Stacking
B  Grouping
C  Pillowing
D  Tufting

147. Short, crooked rose peduncles often result from
A  Botrytis blight
B  Excessive vigor
C  Excessive soluble salts
D  Calcium deficiency

148. Which of the following is NOT important when considering water quality for fresh flowers?
A  Temperature
B  Salinity
C  pH
D  Hardness/softness

149. ________ is the ribbon size typically used for corsage work.
A  #3
B  #9
C  D) #40
D  #16

150. The flowers and leaves of a rose are mottled and streaked with silver, and dusty black droppings have collected. This damage is indicative of:
A  Fungus gnats
B  Thrips
C  Powdery mildew
D  Scale

151. Containers that depict a holiday, season/ theme or articles such as plush animals are known as
A  Accessories
B  Seasonals
C  Decorations
D  Novelties
152. The new growth of a Dieffenbachia is weak and spindly, with large gaps between the leaves. The problem is probably:
   A  Nitrogen deficiency
   B  Botrytis
   C  Salt damage
   D  Lack of light

153. When utilizing the ratio markup method a 5 to 1 item with the total wholesale value of the material costing $12.00 would retail for ______.
   A  None of these
   B  $30.00
   C  $45.00
   D  $60.00

154. An arrangement should be at least _______________ times the height of a tall container or the width of a low elongated container.
   A  1
   B  1 1/2
   C  2 1/2
   D  3

155. Which of the following designs is not suitable for a wedding?
   A  Kneeling bench arrangement
   B  Two-tiered guest table arrangement
   C  Full couch spray arrangement
   D  Cascade bouquet arrangement

156. Which of the following is NOT a primary principle of design:
   A  Accent
   B  Rhythm
   C  Proportion
   D  Dominance

157. Plant texture is determined by __________.
   A  both foliage density and plant shape
   B  plant shape
   C  the way the leaf feels to the touch
   D  foliage density

158. The primary colors are:
   A  Red, yellow, and blue
   B  Orange green and violet
   C  Blue, orange, and violet
   D  Red, green and blue

159. Floral arrangements designed with visual paths along which the eye is led from one point of interest to another are called
   A  Line arrangements
   B  Abstract arrangements
   C  Naturalistic arrangements
   D  Mass arrangements
160. The Oriental style of flower arranging began in _________________.
A Japan
B America
C India
D China

161. Secondary colors consist of:
A Yellow, red, and blue
B Orange, green, and violet
C None of the above
D Orange, blue-violet, and blue-green

162. More plants die from ____________________ than any other cause.
A Overwatering
B Lack of fertilizer
C Lack of water
D Insects

163. Which type of plant would be most likely to tolerate lower light intensity?
A Plants with light colored leaves
B Plants with dark green leaves
C Plants with variegated leaves
D Plants with colorful leaves

164. A speckled leaf appearance with fine silky strands between leaves and on lower leaf surfaces suggests the presence of:
A Damping-off
B Botrytis
C Mealybug
D Spider mite

165. Gloxinia and African violet are members of the plant family:
A Asteraceae
B Caryophyllacea
C Fabaceae
D Gesneriaceae

166. There are three basic types of pots that are commonly used in the greenhouse industry. Which of the following is not one of the basic types?
A Standard pot
B Azalea pot
C Designer pot
D Bulb pot or pan

167. Gladioli are:
A Used a ‘line’ flowers in a floral design
B Seldom used by florists
C Poor keepers
D Come in only two colors
168. The design that consists of several layers of materials, varying in size and texture to create a flowering effect is called a:
   A Naturalistic design
   B Round design
   C Pave' design
   D Cascade design

169. Which period in the history of floral design scattered roses on the tables and floor at banquets?
   A Romans
   B Ancient Greeks
   C French
   D Byzantine

170. A process in which flower bunches are packaged in protective paper or polyethylene coverings to protect and separate flower heads, prevent tangling, and aid in identification is called
   A Stacking
   B Packing
   C Stocking
   D Sleeving

171. When making an English Georgian type arrangement it should be?
   A Casual and open
   B Formal and symmetrical
   C Proportioned and compact
   D Elegant and flamboyant

172. The asymmetrical balanced design of few materials, usually placed in groups that emphasize forms and lines is called a:
   A Vegetative design
   B Pave' design
   C Parallel design
   D Formal linear design

173. The average humidity recommended for interior plants is:
   A 20 to 30%
   B 70 to 100%
   C 10 to 20%
   D 40 to 70%

174. The adjustment of a plant from production conditions to interior conditions is called:
   A Light metering
   B Photosynthesis decline
   C Humidity
   D Acclimatization

175. If a flower arrangement appears to be ready to fall over, it lacks:
   A Rhythm
   B Balance
   C Focus
   D Harmony
176. A 'stretched' plant is one that:
A  Is a vine
B  Produces flowers beyond its natural flowering time
C  Has grown excessively long stems
D  Has taken too long to reach marketable size

177. To create a strong focal point, a designer should __________ at the focal point.
A  Use flowers with a bright chroma
B  Use tight buds so the flowers will last longer and make a more dramatic effect
C  Space the flowers farther apart
D  Place flowers closer together

178. The most commonly used material for holding flowers is:
A  Frogs
B  Pin point holders
C  Floral foam
D  Chicken wire

179. Flowers such as roses and carnations should be stored at:
A  45-50 degrees F
B  36-40 degrees F
C  55-60 degrees F
D  30-35 degrees F

180. A correct way to remove mealybugs from plants is:
A  Use a pesticide
B  Use a fungicide
C  Dab each bug with a cotton swab dipping in rubbing alcohol
D  Rinse the leaves with milk

181. Which of the following sympathy floral designs are more symbolic and based on forms of specific shapes?
A  Standing sprays
B  Set pieces
C  Inset pieces
D  Casket sprays

182. Flowers are subject to chilling injury at temperatures below _________ degrees F.
A  60
B  50
C  59
D  71

183. Which of the following statements best describes a dish garden?
A  A mass of green plants placed in a wicker basket to resemble a miniature garden.
B  A single green plant placed in a low container.
C  A single blooming plant placed in a wicker basket.
D  A mixture of small, living green or blooming plants suited for tabletop display.
184. Which of the following is a true statement?
   A  The lower the number, the thinner the wire and wider the ribbon.
   B  The lower the number, the thinner the wire and narrower the ribbon.
   C  The lower the number, the thicker the wire and narrower the ribbon.
   D  The lower the number, the thicker the wire and wider the ribbon.

185. A zinnia is an example of a flower having a _________ texture.
   A  Medium
   B  Shiny
   C  Coarse
   D  Fine

186. A brown foam which is easily penetrated by delicate floral stems and aids in the arrangement of silk and dry flowers is _________.
   A  Silica gel
   B  Holdfast
   C  Dry foam
   D  Styrofoam

187. What is a good sign that potted plants need to be repotted?
   A  The plant is becoming tall and lanky
   B  New leaves are quite a bit smaller than older ones
   C  New leaves are quite a bit larger than older ones
   D  Leaves are turning yellow

188. A group of orchids have a problem caused by improper culture. The foliage is dark green and healthy, but the plant won't flower. The probable cause is _________.
   A  Insufficient humidity
   B  Over fertilization
   C  Too little light
   D  Under watering

189. The Hogarth "S" design was made in which period?
   A  Byzantine
   B  Empire
   C  Baroque
   D  English- Georgian

190. Which of the following can be a negative effect of using leaf shine often on potted plants?
   A  Blocking of leaf stomata
   B  Depletes nutrients
   C  Prevention of photosynthesis
   D  Keeps leaves shiny

191. Fungus gnat damage to potted plants is caused by the _________.
   A  Adult stage
   B  Larval stage
   C  All of the above
   D  Pupal stage
192. A design that uses a complementary color scheme is one that:
   A  Uses flowers in various tints and shades of one color
   B  Combines all colors
   C  Uses colors that are opposite to one another on the color wheel
   D  Uses colors closely related to one another on the color wheel

193. What type of plants are best suited for closed system terrariums?
   A  Cacti
   B  Tropical plants
   C  Succulents
   D  Flowering plants

194. For optimum vase life, most cut flowers should be stored at temperatures close to:
   A  50 °F
   B  30 °F
   C  40 °F
   D  45 °F

195. ______ is used to secure the floral foam to the design container.
   A  Floral tape
   B  Electrical tape
   C  Masking tape
   D  Anchor tape

196. The term that refers to all the petals of a flower collectively is:
   A  Corolla
   B  Stamens
   C  Styles
   D  Sepals

197. The principles of design are fundamental truths that have evolved as the various art forms have
developed. Which of the following is NOT among the major principles of design?
   A  Scale
   B  Price
   C  Balance
   D  Emphasis

198. Vase life is the length of time that:
   A  A glass vase can be expected to go unbroken
   B  Cut flowers usually remain acceptable
   C  A plastic vase will remain watertight
   D  A flower container remains in style

199. A design that is a naturalistic design in which flowers and plant material is placed as they would grow in
nature is called:
   A  Interpretive design
   B  Cascade design
   C  Vegetative design
   D  Pave’ design
200. **Foliage below the water line should be removed to:**
   A  All of these  
   B  Prevent photosynthesis  
   C  Prevent the leaves from decaying, which foul the water  
   D  Prevent leaves from using stored food in the stem

201. **This spray can be applied to flowers to reduce water loss due to transpiration.**
   A  Sealer  
   B  Anti-transpirant  
   C  Floral tint sprays  
   D  Spray glue

202. **The small handheld bouquets often called Tussie-Mussies were popular in which period.**
   A  Dutch-flemish  
   B  English-Georgian  
   C  Renaissance  
   D  Greek

203. **The majority of florist businesses are conducted in one location and annual gross sales are generally under:**
   A  $2,500  
   B  $250,000  
   C  $25,000  
   D  $2,500,000

204. **What mechanical tool can be used with a glass vase to stabilize flowers?**
   A  A grid made of plastic or anchor tape  
   B  Binding wire  
   C  Floral tape  
   D  Floral wire

205. **The size of the bow for a corsage should be:**
   A  Slightly wider than the petals of the corsage  
   B  ½ the length of the corsage  
   C  Four inches  
   D  As wide as the corsage is long

206. **What is the biggest difference between pricing wedding work and regular daily sales?**
   A  Cost of products  
   B  Tax structure  
   C  More labor is required  
   D  Mark ups aren't used

207. **When constructing a chaplet for a flower girl, it is helpful for the florist to have this piece of information.**
   A  The age of the flower girl  
   B  The head circumference measurement  
   C  The dress size of the flower girl.  
   D  The likes and dislikes of the flower girl
208. Flower stems should be cut approximately at a ______________ angle.
   A  90 degree
   B  180 degree
   C  None of the above
   D  45 degree

209. Optimum temperatures for poinsettia growth would they are purchased and placed indoors is
   A  50-60 degrees
   B  60-80 degrees
   C  45-55 degrees
   D  70-90 degrees

210. The Alstroemeria is most closely related to the following plant:
   A  Abutilon
   B  Chrysanthemum
   C  Easter lily
   D  Daffodil

211. Overhead costs include everything not accounted for in:
   A  Indirect costs
   B  Rebates
   C  Direct costs
   D  Taxes

212. A ______________ is a floral piece commonly displayed at funerals.
   A  Standing spray
   B  Frame
   C  Corsage
   D  Boutonniere

213. If a hue is diluted with gray, the resulting color is called:
   A  Tint
   B  Shade
   C  Value
   D  Tone

214. A grouping of closely spaced flowers, net and accessories in a hand-held floral arrangement is called:
   A  Corsage
   B  Nosegay
   C  Pompon
   D  Hogarthian curve

215. Cut carnations are classified into two groups:
   A  Floral and greenhouse
   B  Standards and miniatures
   C  Premium and discount
   D  None of the above
216. When completing flowers for a wedding you may work with all but one of the following arrangements except
A  Cascade bouquet arrangement
B  Kneeling bench arrangement
C  Full couch spray arrangement
D  Two-tiered guest table arrangement

217. The timing of an Easter lily crop is complicated because:
A  The earlier the date of Easter, the longer it takes to force them
B  The size of the rooted cuttings determines the date of flowering
C  The seeds germinate irregularly over a long period of time
D  All of these

218. If a customer you are serving has a complaint, the first thing that you should do is:
A  Refer it to your supervisor
B  Listen very carefully
C  Ask the customer to wait while you check on what to do
D  Write down his/her name and address

219. A plant is placed in a kitchen window. What should be done to make it grow healthy and equally on all sides?
A  Turn the plant periodically to allow equal amounts of sunlight
B  Test to see if it needs water
C  Place it different areas of the house after two days
D  Place it outdoors after a few days of being inside

220. The flowers of Easter lilies last longer if:
A  The plant is kept in a warm place
B  The pistil is removed
C  The stamens are removed
D  It is sold only after the first flower has opened

221. Cut flowers and 'greens' are held in refrigerators at a temperature range of:
A  45-50 degrees F
B  35-40 degrees F
C  30-32 degrees F
D  40-45 degrees F

222. The showy red, pink or white portions of the poinsettia are called:
A  Petals
B  Sepals
C  Flowers
D  Bracts

223. Which of the following should not be taken into consideration when determining pricing for an event?
A  If arrangements will be moved for the reception
B  Complication of the set up
C  Setup time at the venue
D  Distance of the venue
224. The size relationship of a floral arrangement with its surroundings is:
   A Scale
   B Balance
   C Rhythm
   D Harmony

225. To increase the keeping quality of plant materials with hollow stems, the stems should be:
   A Burned
   B Dipped in boiling water
   C Wrapped with florist tape
   D Filled with water

226. When a florist uses both glossy and varied textures, the role of the varied texture is to
   A serve as a filler to accent the glossy texture
   B not be noticeable in the design
   C hold the viewer's attention after it is attracted to the glossy texture
   D be highly visible and attract the viewer's attention

227. _______ is the method of placing materials closely together at the base of the design so that individual components are indistinguishable.
   A Paving
   B Grouping
   C Clustering
   D Tufting

228. An arrangement should be_________times the height of a tall container or the length of an elongated container.
   A 3 to 4
   B 1.5 to 2
   C ¼
   D 5 to 6

229. When planning for a wedding, there are basic considerations that the florist must address in order to properly assist the bride for this important occasion. Which, if any of the items below are NOT one of these factors?
   A Method of payment
   B Time of year
   C Location of wedding
   D Formality of wedding

230. How many essential nutrients are essential to plant growth and reproduction?
   A Three
   B Four
   C Six
   D Sixteen
231. ________ is the interrelationship of all the parts of an arrangement; flowers, foliage, accessories, and container.
   A Unity
   B Proportion
   C Scale
   D Balance

232. This fungus attacks a wide variety of ornamental plants, probably causing more losses than any other single pathogen.
   A Phytophthora
   B Botrytis cinerea
   C Pythium root rot
   D Alternaria

233. Of the following, which gauge of wire has the thinnest diameter?
   A 18
   B 22
   C 36
   D 24

234. Wooden picks are used to:
   A Used to secure the chicken wire to the foam
   B Secure frogs to the container
   C Secure the floral foam to the container
   D Used to extend and strengthen the stems of flowers for insertion into the floral foam

235. Cut branches of evergreen 20-30 inches long are called:
   A Tips
   B Bales
   C Boughs
   D Bunches

236. A cash and carry shop is also known as this kind of flower shop.
   A Carriage Trade Shop
   B Wholesale Shop
   C Specialty Shop
   D Stem Shop

237. To check if a plant needs water, touch the soil with your finger: if the plant needs water the soil will feel:
   A None of these
   B Dry and warm
   C Gritty
   D Cool and moist

238. The hook method of wiring for floral arrangements is used for ____________.
   A roses
   B tubular flowers
   C delicate flowers
   D flat headed flowers
239. With the exception of the horizontal design, how high in relation to its width should a design be made?
   A  1-1/2 to 2 times the width
   B  1 to 1-1/2 times the width
   C  2 to 2-1/2 times the width
   D  2-1/2 to 3 times the width

240. The sales showroom is separate from the work area. It should be neat and appealing with adequate floor space for customers to move about. Which of the following features is NOT typical of a sales area?
   A  Wrapping / sales counter with cash register
   B  Consultation area with table and chairs
   C  Display refrigerator holding completed arrangements and cut flowers for sale
   D  Design table for making arrangements

241. When making hand-tied bouquets, the stems should be positioned:
   A  Parallel to each other
   B  Perpendicular to each other
   C  Any way that looks nice and holds together
   D  In a spiraling manner

242. Fertilization in a flower takes place when:
   A  Pollen grain touches the ovary
   B  Pollen is released from a flower
   C  Pollen grain touches the stigma
   D  A sperm and egg unite

243. The blending of all components of a design is known as?
   A  Harmony
   B  Progression
   C  Transition
   D  Unity

244. The most common stem support mechanic used by florists in fresh cut flower arrangements is:
   A  Needlepoint holder
   B  Chicken wire
   C  Dry foam
   D  Floral foam

245. Plants need which part of the visible spectrum for good foliage development?
   A  Blue
   B  Green
   C  All of the visible spectrum
   D  Red

246. Abnormally streaked or striped flower petals are a symptom of ‘flower breaking’. This problem is common tulips, lilies and gladiolus and is caused by:
   A  Viruses
   B  Aphids
   C  Thrips
   D  Fungi
247. A container often used at Thanksgiving for floral arrangements and symbolic of a plentiful harvest is the:
   A  Bud vase
   B  Basket
   C  Cornucopia
   D  Hanukkah

248. Nosegays were created in the ______________ period to help mask the smells of body odor in a society where bathing often was not believed to be healthy.
   A  Victorian
   B  English Georgian
   C  Baroque
   D  French

249. The highest percentage of florist industry sales are made by:
   A  None of these
   B  Regular customer
   C  Walk-in customer
   D  Telephone

250. The area within a composition occupied by material is called ________.
   A  Positive space
   B  Line
   C  Texture
   D  Negative space