

Texas FFA State Floriculture Career Development Event General Knowledge Examination Question Bank

Fifty (50) questions for the General Knowledge Examination of the Texas FFA State Floriculture Career Development Event will be selected from the following list.

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

2. Japanese style of floral arrangement is known as:
 - A. Ikenobo
 - B. Yen
 - C. Ikebana
 - D. Ying

3. Growing medium kept too wet will deprive plants of:
 - A. Soluble salts
 - B. Water
 - C. Oxygen
 - D. Fertilizer

4. The size relationship of a floral arrangement with its surroundings is:
 - A. Harmony
 - B. Rhythm
 - C. Scale
 - D. Balance

5. Which of the following is a shade-loving flower?
 - A. Marigold
 - B. Snapdragon
 - C. Chrysanthemum
 - D. Impatiens

6. The genus and species name for the Jade Plant is:
 - A. *Sansevieria trifasciata*
 - B. *Crassula argentea*
 - C. *Brassaia actinophylla*
 - D. *Euphorbia pulcherrima*

7. The most common summer cooling system in greenhouses is:
 - A. Package evaporative coolers
 - B. Fan-tube cooling system
 - C. Fog evaporative cooling
 - D. Fan-and-pad evaporative cooling

8. Lack of early spring flowering from tulip bulbs planted outdoors is due to:
 - A. Bright sunlight
 - B. Lack of winter cooling
 - C. Excessive moisture
 - D. Magnesium and calcium deficiencies

9. _____ involves incorporating water soluble fertilizer into the irrigation systems of greenhouse and nursery crops.
 - A. Broadcasting
 - B. Fertilization
 - C. Fertigation
 - D. Perforation

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

11. A leaf with parallel venation:
 - A. Has leaflets
 - B. Is a monocot
 - C. Has crossing veins
 - D. Is a compound leaf

12. Which of the following is not a method for sterilizing plant growing medium?
 - A. Steaming
 - B. Baking
 - C. Using chemical fumigants
 - D. Keeping the growing medium moist for 6 to 7 days

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

14. The primary colors are:
 - A. White, orange, and blue
 - B. White, red, and blue
 - C. Yellow, black, and blue
 - D. Yellow, red, and blue

15. Cut branches of evergreen 20 to 30 inches long are called:
- A. Tips
 - B. Bales
 - C. Boughs
 - D. Bunches
16. An arrangement should be _____ times the height of a tall container or the length of an elongated container.
- A. 5 to 6
 - B. $\frac{1}{2}$
 - C. 3 to 4
 - D. $1\frac{1}{2}$ to 2
17. A type of propagation in which the propagule remains attached to the parent plant is termed:
- A. Layering
 - B. Stem cutting
 - C. Root cutting
 - D. Division
18. The showy red, pink, or white portion of the poinsettia are:
- A. Flowers
 - B. Bracts
 - C. Petals
 - D. Sepals
19. The pH on soil test results stands for:
- A. Acidity
 - B. Alkalinity
 - C. Potential hydrogen
 - D. Potential oxygen
20. A _____ is a floral piece commonly displayed at funerals.
- A. Standing spray
 - B. Boutonniere
 - C. Corsage
 - D. Frame
21. An example of a mass flower is:
- A. Snapdragon
 - B. Liatris
 - C. Rose
 - D. Larkspur
22. A technique growers use to produce well branched, compact plants with many flowers is:
- A. Stunting
 - B. Compacting
 - C. Pinching
 - D. Potting

23. Which of the following is a member of the Dianthus family?
- A. Chrysanthemum
 - B. Phlox
 - C. Sedum
 - D. Carnation
24. The typical length of florist wire is:
- A. 12 inches
 - B. 18 inches
 - C. 20 inches
 - D. 24 inches
25. The genus and species for Yarrow is:
- A. *Limonium sinuatum*
 - B. *Achillea filipendulina*
 - C. *Ammi majus*
 - D. *Rumohra adiantiformis*
26. A palmately compound leaf has:
- A. A rachis
 - B. A midrib
 - C. Parallel venation
 - D. Leaflets
27. The adjustment of a plant from production conditions to interior conditions is called:
- A. Light metering
 - B. Humidity
 - C. Acclimatization
 - D. Photosynthesis decline
28. When consulting with a bride regarding floral pieces for an upcoming wedding, which of the following is not a primary consideration the florist must address to properly assist the bride for the important occasion?
- A. Location of the wedding
 - B. Payment schedule for floral services
 - C. Formality of wedding
 - D. Time of year
29. The acceleration of flowering by manipulating environmental conditions is known as:
- A. Pulsing
 - B. Forcing
 - C. Leaching
 - D. After-ripening
30. Peat is often mixed into the growing medium of container plants because it:
- A. Is inexpensive
 - B. Has good air and water holding capacities
 - C. Has a high pH
 - D. Absorbs excessive soluble salts

31. The genus and species name for the Fiddleleaf Fig is:
- A. *Ficus lyrata*
 - B. *Ficus elastica*
 - C. *Ficus carica*
 - D. *Ficus benjamina*
32. Popular colors to use in floral designs during the spring and Easter season include:
- A. Red, black, and white
 - B. White, yellow, and bronze
 - C. Yellow, red, and pink
 - D. Pink, yellow, and white
33. A good substitute for sand, this material provides for aeration in the growing media:
- A. Peat moss
 - B. Perlite
 - C. Compost
 - D. Rock wool
34. When preparing a symmetrical triangular floral arrangement, the _____ flowers are placed first in the design.
- A. Form
 - B. Mass
 - C. Line/skeletal
 - D. Filler
35. Secondary macro-nutrients are:
- A. Calcium, magnesium, and sulfur
 - B. Zinc, molybdenum, and copper
 - C. Nitrogen, phosphorus, and potash
 - D. Calcium, zinc, and potash
36. When using the ratio markup method, a 5 to 1 item with the total wholesale value of the material costing \$12.00 would retail for:
- A. \$30.00
 - B. \$120.00
 - C. \$60.00
 - D. \$45.00
37. The design principle of total compatibility of all parts of an arrangement with each other is:
- A. Transition
 - B. Texture
 - C. Harmony
 - D. Proportion
38. A hue with white added is:
- A. Tint
 - B. Tone
 - C. Chroma
 - D. Accent

39. The flower part that contains the pollen is the:
- A. Ovary
 - B. Filament
 - C. Anther
 - D. Corolla
40. Nosegays originated during which period in the history of floral design:
- A. Victorian
 - B. Renaissance
 - C. Baroque
 - D. English-Georgian
41. Flowers and colored bracts are initiated in the poinsettia as days become:
- A. Longer
 - B. Shorter
 - C. Cooler
 - D. Warmer
42. For optimum vase life, most cut flowers should be stored at temperatures close to:
- A. 40 °F
 - B. 45 °F
 - C. 30 °F
 - D. 50 °F
43. To survive in the florist business, an owner/manager must be able to figure out the true value of the product and strive for improvement of the perceived value. This is the essence of:
- A. Discount pricing
 - B. Retail pricing
 - C. Premium pricing
 - D. Profit pricing
44. Appropriate refrigeration of cut floral materials involves both temperature and humidity control to:
- A. Slow down respiration
 - B. Increase water lost by transpiration
 - C. Increase microbial growth and development
 - D. None of the above
45. The _____ method of wiring is commonly used to wire flowers having large, thickened calyxes such as carnations and roses.
- A. Looping
 - B. Insertion
 - C. Hook
 - D. Piercing

46. The term that refers to all the petals of a flower collectively is:
- A. Sepals
 - B. Stamens
 - C. Styles
 - D. Corolla
47. Irregularly shaped holes with smooth edges appear in *Celosia* leaves. Some leaves are even missing. The plants should be treated for:
- A. Aphids
 - B. Leaf cutter bees
 - C. Slugs and snails
 - D. Crickets
48. _____ are sucking insects that secrete a sticky honeydew substance:
- A. Thrips
 - B. Fungus gnats
 - C. Nematodes
 - D. Aphids
49. Secondary colors consist of:
- A. Orange, green, and violet
 - B. Yellow, red, and blue
 - C. Orange, blue-violet, and blue-green
 - D. None of the above
50. "Plant lice" refers to:
- A. Aphids
 - B. Mites
 - C. Thrips
 - D. Scale
51. A major problem in standard carnation production resulting in asymmetrical flowers is:
- A. Improper fertilization
 - B. High-density spacing
 - C. Calyx splitting
 - D. Lack of pinching
52. A _____ color scheme is made up of colors that are adjacent to both direct complement colors on the color wheel.
- A. Complementary
 - B. Split-complementary
 - C. Double split-complementary
 - D. Polychromatic
53. The optimum pH range for azaleas is:
- A. 6.5 to 7.5
 - B. 9.0 to 10.0
 - C. 4.5 to 5.5
 - D. 7.0 to 8.0

54. The primary macro-nutrients are:
- A. Zinc, boron, and magnesium
 - B. Acidic and alkaline
 - C. Chlorine, iron, and manganese
 - D. Nitrogen, phosphorus, and potassium
55. The natural process by which plants grow in the direction of the strongest light source is called:
- A. Photoperiodism
 - B. Photomorphogenesis
 - C. Geotropism
 - D. Phototropism
56. The genus and species name for the ponytail palm is:
- A. *Beaucarnea recurvata*
 - B. *Moluccella laevis*
 - C. *Brassaia actinophylla*
 - D. *Cordyline terminalis*
57. Light energy, carbon dioxide, and water enter into the process of photosynthesis, through which:
- A. Respiration results
 - B. Carbohydrates are formed
 - C. Chlorophyll is formed
 - D. Amino acids are formed
58. To a retailer, the highest percentage of the cost of a floral arrangement is in the:
- A. Labor
 - B. Floral materials
 - C. Accessories
 - D. Container
59. The major component in the protoplasm of plant cells is:
- A. Glucose
 - B. Water
 - C. Oxygen
 - D. Nitrogen
60. Choosing the right heating system for a particular greenhouse depends on all but one of the following variables. Identify the one that is not applicable.
- A. Climate
 - B. Type of containers
 - C. Size of greenhouse
 - D. Cost and availability of heating fuel
61. _____ is generally added to water when processing flowers in a retail floral shop.
- A. Herbicide
 - B. Insecticide
 - C. Biocide
 - D. Algicide

62. The hook method of wiring flowers for floral arrangements is used for:
- A. Flat headed flowers
 - B. Tubular flowers
 - C. Delicate flowers
 - D. Roses
63. Which foliage has the most coarse texture?
- A. Asparagus fern
 - B. Galax
 - C. Leatherleaf fern
 - D. Huckleberry
64. Magnesium, calcium, and sulfur:
- A. Are essential elements needed for plant processes
 - B. Are micro-elements
 - C. Can be found in incomplete fertilizers
 - D. Are only needed by some plants
65. Hanging plants used in interior landscapes function to:
- A. Hide tall, ugly equipment
 - B. Smooth squared edges found in the architecture
 - C. Keep people from sitting on the edges of plants
 - D. Float in water features
66. In plants, _____ is the process of converting stored energy into energy for plant growth.
- A. Transpiration
 - B. Photosynthesis
 - C. Respiration
 - D. Pollination
67. Insects identified by cottony material found in leaf axils and along leaf veins are:
- A. Aphids
 - B. Mealybugs
 - C. Spider mites
 - D. Whiteflies
68. A _____ is a candelabra displayed during the Hanukkah season that features eight identical candles and one taller center candle.
- A. Mimosa
 - B. Standing Spray
 - C. Cornucopia
 - D. Menorah
69. The main reason many tropical foliage plants decline indoors is related to:
- A. Humidity
 - B. Air circulation
 - C. Temperature
 - D. Light

70. Using tints, tones, and shades of the same hue results in a color scheme that is:
- A. Split complementary
 - B. Monochromatic
 - C. Analogous
 - D. Direct complementary
71. A color scheme that uses any two colors located directly across from each other on the color wheel is called:
- A. Analogous
 - B. Triadic
 - C. Complementary
 - D. Monochromatic
72. A hygrometer is used to measure:
- A. Temperature
 - B. Light
 - C. Air flow
 - D. Humidity
73. A coiffure style of corsage is worn:
- A. On the wrist
 - B. In the hair
 - C. On the shoulder
 - D. As a bouquet
74. To properly water indoor plants, consider:
- A. The type of plant
 - B. The size of the plant
 - C. Where the plant is growing
 - D. All of the above
75. Gloxinia and African violet are members of the plant family:
- A. Fabaceae
 - B. Gesneriaceae
 - C. Asteraceae
 - D. Caryophyllaceae
76. The unit of heat measurement used in the greenhouse industry is the:
- A. BTU
 - B. CFM
 - C. EKG
 - D. OCM
77. When transplanting seedlings, handle them by their:
- A. Roots
 - B. Stems
 - C. Leaves
 - D. Cotyledons

78. _____ flowers are used to fill in a floral arrangement once the lines and the focal area of the design have been established.
- A. Mass
 - B. Line
 - C. Form
 - D. Spike-type
79. A floral arrangement designed with visual paths along which the eyes move from one point of interest to another is called a(n):
- A. Mass arrangement
 - B. Abstract arrangement
 - C. Naturalistic arrangement
 - D. Line arrangement
80. An instrument that measures the electrical conductivity of a soil solution is called a:
- A. Manometer
 - B. Tensiometer
 - C. Photometer
 - D. Solubridge
81. *Lilium longiflorum*, an important holiday potted plant, is commonly known as:
- A. Kalanchoe
 - B. Poinsettia
 - C. Easter Lily
 - D. Hydrangea
82. Growth-promoting substances are often applied to the bases of cuttings when propagating plants in order to:
- A. Harden-off the cuttings
 - B. Conserve moisture in the cuttings
 - C. Induce node development on the stems of the cuttings
 - D. Speed the development of roots on the cuttings
83. An example of a specialty cut flower used in a floral arrangement is a(n):
- A. Rose
 - B. Carnation
 - C. Orchid
 - D. Pompom Chrysanthemum
84. Methods of drying and preserving plant materials do **not** include:
- A. Pressing
 - B. Using glycerin
 - C. Microwaving
 - D. Hydration

85. _____ is a common disease found on roses grown for cut flowers.
- A. Stem rot
 - B. Rust
 - C. Root rot
 - D. Botrytis
86. For optimum germination, seeds of nearly all bedding plants require a propagation medium temperature of:
- A. 75 to 85 degrees
 - B. 45 to 55 degrees
 - C. 65 to 75 degrees
 - D. 55 to 65 degrees
87. A flower worn by a man on the lapel of his jacket is a:
- A. Coiffure
 - B. Bouquet
 - C. Boutonniere
 - D. Corsage
88. Flowers used by the Egyptians included:
- A. Chrysanthemums
 - B. White blossomed plums
 - C. Water lilies
 - D. Bluebonnets
89. A ten-week group variety of chrysanthemum means:
- A. They should be ten weeks old when potted
 - B. They will bloom ten weeks after sticking the cuttings
 - C. They bloom ten weeks after the start of short days
 - D. Cuttings of this variety being planted should root in ten weeks
90. _____ is the sticky excretion characteristic of aphids, mealybugs, and scale.
- A. Wax
 - B. Honey
 - C. Honeydew
 - D. Sugarsap
91. The new growth of a *Dieffenbachia* is weak and spindly, with large gaps between the leaves. The problem is probably:
- A. Salt damage
 - B. Nitrogen deficiency
 - C. Botrytis
 - D. Lack of light

92. The least desirable way to water plug-grown seedlings is with:
- A. A hand-held nozzle
 - B. An automatic mist system
 - C. Capillary mist
 - D. Sub-irrigation
93. A container often used at Thanksgiving for floral arrangements and symbolic of a plentiful harvest is the:
- A. Bud vase
 - B. Cornucopia
 - C. Hanukkah
 - D. Basket
94. Cuttings of potted chrysanthemums are planted at an angle to encourage:
- A. Increased branching
 - B. Larger blooms
 - C. A more rounded plant
 - D. Earlier flowering
95. All of the protoplasm in a cell, except the nucleus, is called:
- A. Mitochondria
 - B. Ribosome
 - C. Stomoplasm
 - D. Cytoplasm
96. When black is added to a hue, the resulting color is called a:
- A. Shade
 - B. Hue
 - C. Tone
 - D. Tint
97. Pollination occurs when:
- A. A sperm and egg unite
 - B. Pollen is released from the flower
 - C. A pollen grain touches the stigma
 - D. A pollen grain touches the ovary
98. The common name for *Zebrina pendula* is:
- A. African Lily
 - B. Boston ivy
 - C. Wandering Jew
 - D. Grape ivy
99. The first major civilization to have professional floral designers were the:
- A. Greeks
 - B. Egyptians
 - C. Romans
 - D. Chinese

100. The least expensive method of propagating plants is by:
- A. Layering
 - B. Cuttings
 - C. Seeds
 - D. Grafting
101. Fungus gnat damage to container plants is caused by the:
- A. Adult stage
 - B. Larval stage
 - C. Pupal stage
 - D. All of the above
102. Which of the following flower types is not suitable for pressing?
- A. Daffodil
 - B. Dusty miller
 - C. Pansy
 - D. African violet
103. _____ and _____ are two nutrients that are not compatible with each other.
- A. Zinc, manganese
 - B. Zinc, iron
 - C. Iron, manganese
 - D. Iron, magnesium
104. The most important environmental factor regulating flower initiation in bulbous species is:
- A. Light
 - B. Temperature
 - C. Moisture
 - D. Ventilation
105. _____ gauge wire is most commonly used for funeral work.
- A. 18
 - B. 28
 - C. 24
 - D. 32
106. Aphids can promote growth of _____ due to the honeydew they excrete.
- A. Crown rot
 - B. Crown gall
 - C. Leaf roll
 - D. Black sooty mold
107. Thrips are commonly found on which part of the plant?
- A. Leaves
 - B. Roots
 - C. Stems
 - D. Flowers

108. To increase the keeping quality of plant materials with hollow stems, the stems should be:
- A. Burned
 - B. Dipped in boiling water
 - C. Filled with water
 - D. Wrapped with florist tape
109. The bract that encloses a flower cluster is a _____.
- A. Quill
 - B. Spathe
 - C. Spike
 - D. Petal
110. An example of a day neutral plant is the:
- A. Kalanchoe
 - B. Poinsettia
 - C. Rose
 - D. Chrysanthemum
111. Of the following, which gauge of wire has the thinnest diameter?
- A. 22
 - B. 24
 - C. 36
 - D. 18
112. The average humidity recommended for interior plants is:
- A. 70 to 100%
 - B. 40 to 70%
 - C. 20 to 30%
 - D. 10 to 20%
113. Which of the following is not a recognized color scheme from the color wheel?
- A. Monochromatic
 - B. Analogous
 - C. Triadic
 - D. Quadraplex
114. The all-purpose light level at which most interior plants survive, receiving as much light as possible without any direct sun is:
- A. Moderate light
 - B. Bright-indirect light
 - C. Low light
 - D. Shade
115. Commercial flower crops are sometimes watered to cause leaching. This means:
- A. Watering to spread fertilizer nutrients more evenly throughout the plant root system
 - B. Watering to remove excess soluble salts from the growing medium
 - C. Watering only to wet the top 1/3 of the growing medium
 - D. Watering by subsurface methods

116. _____ is used to secure the floral foam to the design container.
- A. Electrical tape
 - B. Floral tape
 - C. Anchor tape
 - D. Masking tape
117. Light intensity is expressed in units of:
- A. Foot-candles
 - B. Micrometers
 - C. Candlelights
 - D. All of the above
118. All of the following are bulbous and tuberous-rooted plants except:
- A. Dahlias
 - B. Dutch iris
 - C. Caladiums
 - D. Snapdragons
119. One example of a micro-element is:
- A. Magnesium
 - B. Copper
 - C. Calcium
 - D. Sulfur
120. A nitrogen deficiency causes:
- A. Rapid maturity of plants
 - B. Death of terminal buds at tips and leaf margins
 - C. Short stems, small leaves, and pale color in the leaves
 - D. Stems to become tender and weak
121. One knife **not** used in the horticulture and floriculture industry is a _____ knife.
- A. Kitchen
 - B. Pruning
 - C. Grafting
 - D. Patch budding
122. A granite-like volcanic material that is crushed and heated to expand to twenty times its original volume is:
- A. Limestone
 - B. Clay loam
 - C. Vermiculite
 - D. Perlite
123. When listed on the labels of horticultural chemicals, the word “caution” means:
- A. Low order of toxicity
 - B. Watch out for this one
 - C. Highly toxic
 - D. No toxicity at all

124. The most widely used foliage in round arrangements is:
- A. Eucalyptus
 - B. Galax leaf
 - C. Leatherleaf fern
 - D. Lemonleaf
125. The percentages of nitrogen, phosphorous, and potassium contained in a fertilizer refers to:
- A. Fertilizer analysis
 - B. Micro-element analysis
 - C. Chelated release
 - D. Essential analysis
126. 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
127. Analogous color harmony utilizes:
- A. A combination of primary and secondary colors
 - B. Two colors directly opposite each other on the color wheel
 - C. Tints, shades, and tones of one hue
 - D. Two or three adjacent colors on the color wheel
128. Which of the following is not characteristic of a formal floral arrangement?
- A. The arrangement is usually symmetrically balanced
 - B. The flowers used may include roses, orchids, carnations
 - C. The central vertical axis of the arrangement may be off-center
 - D. The textures of the arrangement are smooth, shiny, or delicate
129. The major auxin produced in plants is:
- A. Indole-3-butyric acid (IBA)
 - B. Naphthalene acetic acid (NAA)
 - C. Indole-3-acetic acid (IAA)
 - D. Ethylene
130. Which of the following color schemes uses three colors equidistant from each other on the color wheel?
- A. Triadic
 - B. Monochromatic
 - C. Analogous
 - D. Complementary
131. Interveinal refers to:
- A. Brown, dead leaves
 - B. Throughout the veins
 - C. Between the veins
 - D. Yellowing leaves

132. Transition in a floral arrangement is the process of rhythmic change through progression, sequence, or _____.
- A. Modification
 - B. Gradation
 - C. Restructuring
 - D. Separation
133. The following is **not** a characteristic of an insect:
- A. Three segmented body
 - B. Six legs
 - C. Two pairs of wings
 - D. Two tentacles
134. When cells are turgid, they are:
- A. Deflated
 - B. Ruptured
 - C. Inflated
 - D. Joined with other cells
135. The main commercial method for propagating African violets is by:
- A. Seeds
 - B. Crowns
 - C. Tubers
 - D. Leaf petioles
136. Failure of a bulb to produce a marketable flower following floral initiation is:
- A. Disbudding
 - B. Flower blasting
 - C. Damping off
 - D. Dieback
137. Mealybugs:
- A. Are black, cream, green, and/or red colored
 - B. Are teardrop-shaped
 - C. Are cottony and white
 - D. Appear on flowers
138. A _____ flower is a type of flower often used as a focal point.
- A. Mass
 - B. Line
 - C. Form
 - D. Spike-type
139. Growing medium for greenhouse plant production is:
- A. A nutritive substance in which seeds germinate and plants grow
 - B. Unsterilized soil
 - C. Soil which hasn't been graded for size
 - D. The cellular structures that make up wood

140. The light intensity at which respiration and photosynthesis are balanced is:
- A. Photosynthetically active radiation
 - B. Approximately 1,000 foot candles
 - C. Light compensation point
 - D. All of the above
141. The most commonly used design for all-purpose vase arrangements and baskets is the:
- A. Hogarth
 - B. Symmetrical triangle
 - C. Asymmetrical triangle
 - D. Scalene triangle
142. _____ is an inexpensive material from which some floral containers are made, consisting of wood pulp and glue pressed together.
- A. Papier-mâché
 - B. Clay
 - C. Paper
 - D. Chenille
143. The cool colors on a typical color wheel include:
- A. Red, red-orange, orange, yellow-orange
 - B. Yellow-green, yellow, yellow-orange
 - C. Green, blue-green, blue, blue-violet, violet
 - D. Red-violet, red, violet, red-orange
144. The removal of lateral flower buds from stems, such as carnations and chrysanthemums, is called:
- A. Soft pinch
 - B. Deadheading
 - C. Hard pinch
 - D. Disbudding
145. Which of the following are fungus diseases of plants:
- A. Mildew, fusarium, damping off
 - B. Aster yellows, mildew, botrytis
 - C. Yellowing, mildew, damping off
 - D. Thrips, mildew, fusarium
146. Spathiphyllums are popular for their dark, glossy, green leaves and their snowy white _____.
- A. Phyllums
 - B. Flowers
 - C. Spathes
 - D. Roots

147. 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
148. Gladiolus are typically propagated from:
- A. Rhizomes
 - B. Bulbs
 - C. Corms
 - D. Cuttings
149. An arrangement of flowers designed for the top of a closed funeral casket is a:
- A. Half couch spray
 - B. Full couch spray
 - C. Standing spray
 - D. Easel piece
150. _____ is the ribbon size typically used for corsage work.
- A. #3
 - B. #9
 - C. #16
 - D. #40
151. When designing an asymmetrical floral arrangement, the floral designer must consider which of the following design principles:
- A. Proportion
 - B. Balance
 - C. Focal point
 - D. All of the above
152. Floral designers wire flowers to:
- A. Keep flowers upright
 - B. Weaken or slightly break stems
 - C. Decrease the length of short stems
 - D. All of the above
153. To be profitable for the florist, a floral arrangement should have no more than _____ percent of its retail price in Cost of Goods Sold (COGS).
- A. 50
 - B. 35
 - C. 10
 - D. 70

154. The emission of water vapor from the surface of plant leaves is called:
- A. Fixation
 - B. Photosynthesis
 - C. Nitrification
 - D. Transpiration
155. Which of the following is an example of a symmetrical floral design?
- A. Right triangle
 - B. Crescent
 - C. Round
 - D. Hogarth curve
156. The framework of a floral design is created by:
- A. Line
 - B. Mass
 - C. Filler
 - D. Focal point
157. In Japanese floral design, Tai represents:
- A. Man
 - B. Earth
 - C. Heaven
 - D. Hades
158. An example of a macro-element is:
- A. Phosphorus
 - B. Chlorine
 - C. Copper
 - D. Iron