

## Texas FFA Floriculture Question Bank

1. Honeydew on the leaves and ants crawling around a plant indicate:  
**Aphids**
2. Fertilization in a flower takes place when:  
**A sperm and egg unite**
3. Vase life is the length of time that:  
**Cut flowers usually remain acceptable**
4. If a hue is diluted with gray, the resulting color is called:  
**Tone**
5. The order of the elements in a 5-10-5 fertilizer analysis is:  
**NPK**
6. If a flower arrangement appears to be ready to fall over, it lacks:  
**Balance**
7. A person is exposed to the highest concentration of a pesticide during:  
**Mixing**
8. It is important not to keep fruit baskets in the same cooler with fresh flowers because:  
**Ethylene gas from the fruit will cause the flowers to age quickly**
9. The stomata of a plant leaf:  
**Regulate water vapor loss from the plant**
10. A method of applying pesticides to plants that can be effectively used in greenhouse but not outdoors is:  
**Fumigation**
11. A flowering pot marketed throughout the year is:  
**Chrysanthemum**
12. To check if a plant needs water, touch the soil with your finger: if the plant needs water the soil will feel:  
**Dry and warm**
13. The treatment given Easter lilies to speed flowering is called:  
**Precooling**
14. An explant is:  
**Plant produced from a tissue (meristem)**
15. The word photoperiod has to do with light:  
**Duration**
16. Growing medium kept too wet will deprive plants of:  
**Oxygen**

17. A pathogen is:  
**Microorganism that causes a disease**
18. The following florist crops are propagated by cuttings:  
**Carnation, chrysanthemum, poinsettia, azalea**
19. Green plants manufacture sugar in the presence of sunlight. This process is called:  
**Photosynthesis**
20. The highest percentage of florist industry sales are made by:  
**Telephone**
21. Hydrangeas are forced for the following holidays:  
**Easter, Mother's Day, Memorial Day**
22. The Alstromeria is most closely related to the following plant:  
**Easter lily**
23. Costs associated with making an arrangement, decorating a blooming plant, or creating wedding flowers are called \_\_\_\_\_.  
**Direct costs**
24. \_\_\_\_\_ play a powerful role in advertising floral shops and in most locations leads all other media in sales return for dollar spent.  
**Window displays**
25. Systemic pesticides control the pest by:  
**Dissolving into and being moved by the plant sap**
26. The primary colors are:  
**Red, yellow, and blue**
27. When ordering flowers from a wholesale florist, one should consider the following:  
**All of the above**
28. The most commonly used material for holding flowers is:  
**Floral foam**
29. Foliage below the water line should be removed to:  
**Prevent the leaves from decaying, which foul the water**
30. Flowers such as roses and carnations should be stored at:  
**36-40 degrees F**
31. An example of a mass flower is:  
**Rose**
32. The size of the bow for a corsage should be:  
**Slightly wider than the petals of the corsage**
33. Pre-formed pot covers used on potted plants are called  
**Speed covers**

34. Florist azaleas are:  
**Small evergreen shrubs**
35. Which of the following is provided for a plant by its leaves?  
**A food factory**
36. The most important cut flower crops in the US are:  
**Mum, rose, carnation**
37. The area within a composition occupied by material is called \_\_\_\_\_  
**Positive space**
38. The flowers of Easter lilies last longer if:  
**The stamens are removed**
39. The larger the gauge of florist wire indicates that the thickness is:  
**Thinner**
40. Deluxe floral foam is used to:  
**Hold heavy stemmed flowers**
41. The number of flowers usually in a cymbidium orchid corsage is:  
**One**
42. The most important environmental factor in orchid culture is:  
**Watering and water quality**
43. The acceleration of flowering by manipulation of environmental conditions is known as:  
**Forcing**
44. Mass marketing is the sale of floral products:  
**All of the above**
45. Optimum temperatures for poinsettia growth are:  
**60-80 degrees**
46. Costs associated with making an arrangement, decorating a blooming plant or creating wedding flowers are called:  
**Direct costs**
47. The function (s) of floral preservatives is(are) to:  
**All of the above**
48. A grouping of closely spaced flowers, net and accessories in a hand-held floral arrangement is called:  
**Nosegay**
49. Field production of gladiolus is accomplished by using:  
**Corms**
50. This fungus attacks a wide variety of ornamental plants, probably causing more losses than any other single pathogen.  
**Botrytis cinerea**

51. Distorted flowers characterized by shorter petals, which give the rose a flattened appearance are called:  
**Bullheads**
52. Which of the following is a true statement?  
**The lower the number, the thicker the wire and narrower the ribbon.**
53. Specialty cut flowers may be defined as:  
**Cut flowers other than roses, carnations and chrysanthemums**
54. The size relationship of a floral arrangement with its surroundings is:  
**Scale**
55. The showy red, pink or white portions of the poinsettia are called:  
**Bracts**
56. A speckled leaf appearance with fine silky strands between leaves and on lower leaf surfaces suggests the presence of:  
**Spider mite**
57. All of the following are bulbous and tuberous-rooted plants except:  
**Snapdragons**
58. The majority of florist businesses are conducted in one location and annual gross sales are generally under:  
**\$250,000**
59. The unit of heat measurement used in the greenhouse industry is the:  
**BTU**
60. 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?  
**Designer pot**
61. Flowers, which are worn by men and pinned on a lapel, are called:  
**Boutonnieres**
62. This growth regulator increases the flower size of geranium and accelerates flowering in cyclamen:  
**Gibberellic acid**
63. A more expensive decorative container into which a potted plant can be set is a:  
**Jardinière**
64. Analogous color harmony utilizes:  
**Two or three adjacent colors on the color wheel**
65. When completing flowers for a wedding you may work with all but one of the following arrangements except  
**Full couch spray arrangement**
66. Certain plants are quite suitable for use in terrariums. Which, if any, of the following are suitable for this use?  
**All of the above**
67. These summer-blooming perennials produce dense, bristly balls of blue color:  
**Globe thistle**

68. When growing orchids, a hygrometer is used to measure:  
**Humidity**
69. The hook method of wiring for floral arrangements is used for \_\_\_\_\_.  
**Flat headed flowers**
70. Upper leaves which show interveinal chlorosis probably suffer from:  
**An iron deficiency**
71. Marigold seed which fails to emerge, or seedlings which die soon after emerging: from wet soil are the result of:  
**Damping off**
72. The flowers and leaves of a rose are mottled and streaked with silver, and dusty black droppings have collected. This damage is indicative of:  
**Thrips**
73. African violets are typically propagated by:  
**Leaf cuttings**
74. \_\_\_\_\_ is the act of cutting flower stems properly and providing them with the proper treatment at any stage of the distribution process.  
**Processing**
75. The pricing method based on 40% of retail selling price is:  
**Wholesale pricing**
76. Cut branches of evergreen 20-30 inches long are called:  
**Boughs**
77. The term "texture", as it applies to plants, includes such adjectives as:  
**Fine, medium and coarse**
78. A design that uses a complementary color scheme is one that:  
**Uses colors that are opposite to one another on the color wheel**
79. Cool colors include color combinations like:  
**Blue-green, blue, blue-violet and violet**
80. The type of plant that lives for more than two years is:  
**Perennials**
81. The reason for putting irregularly shaped stones or broken pieces of pottery into the bottom of a pot containing flowering plants is:  
**It helps the soil to drain after being watered**
82. What is the purpose of 'pinching' plants?  
**Pinching helps the plant to become bushier**
83. 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.  
**Potassium**

84. The best time to water flowering plants is:

**In the morning**

85. How many essential nutrients are essential to plant growth and reproduction?

**Sixteen**

86. When is the best time to divide a mature chrysanthemum?

**When it is about three inches tall in the spring**

87. The pH on soil test results stands for:

**Potential hydrogen**

88. When cutting roses to use indoors or to remove spent blossoms:

**Cut directly below the first strong, five-leaflet leaf**

89. A cutting garden is a plot of land set aside for the purpose of growing flowers for what use?

**Indoor bouquets only**

90. A correct way to remove mealy bugs from plants is:

**Dab each bug with a cotton swab dipping in rubbing alcohol**

91. Fertilizer that you add to your flowering plants contains the following elements in the correct order:

**Nitrogen, phosphorus, potassium**

92. Japanese style of floral arrangement is known as:

**Ikebana**

93. What type of water supply do cut flowers need to transport food and to keep the stems stiff?

**Constant water supply**

94. 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?

**Insert tooth picks pointed through the bloom into the stem**

95. A \_\_\_\_\_ has a flower bud within it surrounded by layers of food supply.

**True bulb**

96. Plants need which part of the visible spectrum for good foliage development?

**Blue**

97. Abnormally streaked or striped flower petals are a symptom of 'flower breaking'. This problem is common tulips, lilies and gladiolus and is caused by:

**Viruses**

98. What is the most important thing to do for bulbs to produce flowers during succeeding years?

**Grow a good crop of foliage**

99. Which type of rose has multiple large flowers on a single stem?

**Floribundas**

100. What is a good sign that potted plants need to be repotted?

**New leaves are quite a bit smaller than older ones**

101. A \_\_\_\_\_ is a floral piece commonly displayed at funerals.

**Standing spray**

102. Most indoor foliage plants need which kind of lighting?

**Bright indirect light**

103. 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

**Profit Pricing**

104. The principle of total compatibility of all parts of an arrangement with each other is termed:

**Harmony**

105. The term hard good means:

**Nonperishable items used in designing such as containers**

106. A process used by growers to produce well-branched, compact plants with many flowers is called:

**Pinching**

107. Cut carnations are classified into two groups:

**Standards and miniatures**

108. Food is translocated implants through a tissue called the:

**Phloem**

109. Parallel leaf venation, lack of annular rings, and floral parts in multiples of three, are distinguishing characteristics of:

**Monocots**

110. Transpiration is:

**The loss of water vapor from the plant**

111. The adjustment of a plant from production conditions to interior conditions is called:

**Acclimatization**

112. Peat is often mixed into the growing medium of container plants because it:

**Has good air and water holding capacities**

113. A poinsettia crop that is four weeks late in flowering for Christmas was very likely exposed to:

**Lighting at night**

114. Damping-off disease of seedlings is caused by:

**Fungus**

115. Food is manufactured in the leaves of plants when they are exposed to light. This process is called:

**Photosynthesis**

116. A 'stretched' plant is one that:

**Has grown excessively long stems**

117. Chrysanthemums and poinsettias are grown commercially under long nights. This is needed to:

**Initiate and develop flowers**

118. A good substitute for sand, this material provides for aeration in the growing media:  
**Perlite**
119. The timing of an Easter lily crop is complicated because:  
**The earlier the date of Easter, the longer it takes to force them**
120. Most greenhouse crops stop growing when the air temperature goes above:  
**90°F**
121. Soil structure refers to:  
**The arrangement of soil particles**
122. With the exception of the horizontal design, how high in relation to its width should a design be made?  
**1-1/2 to 2 times the width**
123. Focus in floral design refers to:  
**Attraction of the observers' eye to a central point**
124. Cut flowers and 'greens' are held in refrigerators at a temperature range of:  
**35-40oF**
125. A floral arrangement should be finished on all sides if it is to be placed:  
**In front of a mirror**
126. When designing a floral arrangement, after the container has been prepared, one should:  
**Establish the lines**
127. The following is an analysis for a complete fertilizer for commercial use:  
**5-10-5**
128. This citric acid solution causes flowers to take up water rapidly to prevent dehydration after flowers have been dry packed.  
**Hydrating solution**
129. To create a strong focal point, a designer should \_\_\_\_\_ at the focal point.  
**Use flowers with a bright chroma**
130. Use of the following materials is regulated by both Federal and state laws:  
**Insecticides, fungicides, miticides, herbicides, plant growth regulators**
131. Early warning signs of poisoning of humans by an organophosphate insecticide may include:  
**Tightness in chest, narrowing pupils, headache**
132. If you have a work related problem that you do not know how to solve, you should take it to your supervisor:  
**With alternative solutions**
133. If a customer you are serving has a complaint, the first thing that you should do is:  
**Listen very carefully**
134. Gladioli are:  
**Used a 'line' flowers in a floral design**



135. Overhead costs include everything not accounted for in:

**Direct costs**

136. A florist is most likely to be promptly paid when charged account bills are mailed:

**Monthly**

137. When should plants be watered?

**Just prior to wilting or water stress occurs**

138. 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?

**Price**

139. 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:

**Stability & depth**

140. 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.

**Arrangement may be placed off-center**

141. 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?

**Both of the above**

142. When certain elements are provided in excess to plants, uptake of other nutrients may be hindered. One example of a mineral antagonism is the \_\_\_\_\_ interaction; a 1:1 ratio is recommended for most floriculture crops.

**Nitrogen-Potassium**

143. All but one of the following is easily suitable for pressing. Which item is NOT suitable for pressing.

**Daffodil**

144. 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?

**Method of payment**

145. Optimum temperature for poinsettia growth is \_\_\_\_\_ degrees F.

**60 to 80**

146. There are three basic "C" aims for selling in a flower shop. Which of the following is NOT included in the three "C"s?

**Contain the cost**

147. 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 \_\_\_\_\_.

**\$60.00**

148. 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?

**Design table for making arrangements**

149. Generally, roses are graded according to \_\_\_\_\_ of stem.

**Length**

150. The bract that encloses a flower cluster is a .

**Spathe**

151. 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 \_.

**Aphids**

152. 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 \_\_\_\_\_.

**Too little light**

153. Fungus gnat damage to potted plants is caused by the \_\_\_\_\_.

**Larval stage**

154. A type of propagation in which the propagule remains attached to the parent plant is termed \_\_\_\_\_.

**Layering**

155. Short, crooked rose peduncles often result from \_\_\_\_\_.

**Excessive vigor**

156. The greatest control over the cooling phase of Easter lily production is provided by \_\_\_\_\_.

**Controlled temperature forcing**

157. Secondary macro-nutrients are:

**Calcium, magnesium, and sulfur**

158. Floral arrangements designed with visual paths along which the eye is led from one point of interest to another are called \_\_\_\_\_.

**Line arrangements**

159. The flower part that contains the pollen is the:

**Anther**

160. Nosegay originated during which period in the history of floral design:

**English-Georgian**

161. The number one foliage production state in acres and wholesale value is \_\_\_\_\_.

**Florida**

162. An arrangement should be \_\_\_\_\_ times the height of a tall container or the length of an elongated container.

**1.5 to 2**

163. A mum cultivar with a single flower more than 4 inches in diameter, having all lateral buds removed is called a \_\_\_\_\_.

**Standard mum**

164. The light intensity at which respiration and photosynthesis are balanced is \_\_\_\_\_.

**All of the above**

165. The florist's chrysanthemum is a \_\_\_\_\_.

**All of the above**

166. Plant texture is determined by \_\_\_\_\_.

**B and C - foliage density and plant shape**

167. A brown foam which is easily penetrated by delicate floral stems and aids in the arrangement of silk and dry flowers is \_\_\_\_\_.

**Dry foam**

168. For optimum vase life, most cut flowers should be stored at temperatures close to:

**40 °F**

169. Appropriate refrigeration of cut floral materials involves both temperature and humidity control to:

**slow down respiration**

170. The \_\_\_\_\_ method of wiring is commonly used to wire flowers having large, thickened calyxes such as carnations and roses.

**Piercing**

171. The term that refers to all the petals of a flower collectively is:

**Corolla**

172. Irregularly shaped holes with smooth edges appear in Celosia leaves. Some leaves are even missing. The plants should be treated for:

**Slugs and snails**

173. Secondary colors consist of:

**Orange, green, and violet**

174. "Plant lice" refers to:

**Aphids**

175. A major problem in standard carnation production resulting in asymmetrical flowers is:

**Calyx splitting**

176. The primary macro-nutrients are:

**Nitrogen, phosphorus, and potassium**

177. The natural process by which plants grow in the direction of the strongest light source is called:

**Phototropism**

178. A palmately compound leaf has:

**Leaflet**

179. If a florist was limited to two tools, the least useful ones to have would be:

**Oasis and cardettes**

180. A hue with white added is:

**Tint**

181. One of the earliest cultures to use flowers were the Egyptians. They valued \_\_\_\_\_ and \_\_\_\_\_.

**Simplicity and repetition**

182. Light energy, carbon dioxide, and water enter into the process of photosynthesis, through which:

**Carbohydrates are formed**

183. 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.

**Type of containers**

184. \_\_\_\_\_ is generally added to water when processing flowers in a retail floral shop.

**Biocide**

185. Hanging plants used in interior landscapes function to:

**Smooth squared edges found in the architecture**

186. The main reason many tropical foliage plants decline indoors is related to:

**Light**

187. To properly water indoor plants, consider:

**All of the above**

188. Gloxinia and African violet are members of the plant family:

**Gesneriaceae**

189. Growth-promoting substances are often applied to the bases of cuttings when propagating plants in order to:

**Speed the development of roots on the cutting**

190. A ten-week group variety of chrysanthemum means:

**They bloom ten weeks after the start of short days**

191. The new growth of a Dieffenbachia is weak and spindly, with large gaps between the leaves. The problem is probably:

**Lack of light**

192. A container often used at Thanksgiving for floral arrangements and symbolic of a plentiful harvest is the:

**Cornucopia**

193. All of the protoplasm in a cell, except the nucleus, is called:

**Cytoplasm**

194. When black is added to a hue, the resulting color is called a:

**Shade**

195. The first major civilization to have professional floral designers was the:

**Greeks**

196. The least expensive method of propagating plants is by:

**Seeds**

197. There are three main ingredients in floral preservatives. Which of the following is not one of these ingredients?

**Caking agent**

198. The most important environmental factor regulating flower initiation in bulbous species is:

**Temperature**

199. A \_\_\_\_\_ gauge wire is most commonly used for funeral work.

**18**

200. To increase the keeping quality of plant materials with hollow stems, the stems should be:

**Filled with water**

201. Of the following, which gauge of wire has the thinnest diameter?

**36**

202. The average humidity recommended for interior plants is:

**40 to 70%**

203. When a florist uses both glossy and varied textures, the role of the varied texture is to \_\_\_\_\_.

**Hold the viewer's attention after it is attracted to the glossy texture**

204. Commercial flower crops are sometimes watered to cause leaching. This means:

**Watering to remove excess soluble salts from the growing medium**

205. \_\_\_\_\_ is used to secure the floral foam to the design container.

**Anchor tape**

206. Light intensity is expressed in units of:

**Foot-candles**

207. When making hand-tied bouquets, the stems should be positioned:

**In a spiraling manner**

208. Intervinal refers to:

**Between the veins**

209. Transition in a floral arrangement is the process of rhythmic change through progression, sequence, or \_\_\_\_\_.

**Gradation**

210. The following is not a characteristic of an insect:

**Two tentacles**

211. When cells are turgid, they are:

**Inflated**

212. 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?

**Phosphorus**

213. \_\_\_\_\_ is the ribbon size typically used for corsage work.

**#3**

214. Size of a casket spray is determined by:

**Budget**

215. The most common stem support mechanic used by florists in fresh cut flower arrangements is:
- Floral foam**
216. The optimum growing temperature for most bedding plants is:
- 65 degree Fahrenheit – 72 degree Fahrenheit**
217. Roses are propagated by \_\_\_\_\_.
- Grafting**
218. DIF control is a method of controlling the growth of plants. DIF refers to:
- Difference between day and night temperatures**
219. A design that uses a combination of both natural and manmade materials in an unnatural manner to create a new image is called a:
- Interpretive design**
220. A design that is a naturalistic design in which flowers and plant material is placed as they would grow in nature is called:
- Vegetative design**
221. The design that consists of several layers of materials, varying in size and texture to create a flowering effect is called a:
- Cascade design**
222. The asymmetrical balanced design of few materials, usually placed in groups that emphasizes forms and lines is called a:
- Formal linear design**
223. This design is the easiest for a beginner because it does not require a focal point.
- Round**
224. What is the purpose of plant propagation?
- To produce new and better breeds of plants at a fast rate**
225. What is percent germination and how can it be calculated?
- Both a and c**
226. The pierce wiring technique works best on flowers that have a \_\_\_\_\_ \_\_\_\_\_.
- Thick Calyx**
227. 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?
- Persuasive**
228. Which of the following is NOT important when considering water quality for fresh flowers?
- Temperature**
229. Which of the following is NOT important for a floral designer to ask when designing arrangements for a specific room?
- What percent of the budget does the room cost**
230. Which of the following designs is not suitable for a wedding?
- Full couch spray arrangement**

231. An organism capable of causing a disease is called:

**Pathogen**

232. To insure blue color in hydrangeas, you would:

**Fertilize with aluminum sulfate**

233. Air layered plant are removed from the parent plant:

**As soon as the roots are visible**

234. The measure of how poisonous a chemic is after a single exposure is \_\_\_\_\_ toxicity.

**Acute**

235. What is the fertilizer element that is used by the plant to make chlorophyll molecules?

**Nitrogen**

236. IPM is an acronym for:

**Integrated pest management**

237. The fertilizer element \_\_\_\_\_ increases the plant's resistance to disease.

**Potassium**

238. Which of the following fertilizer elements is NOT a micro-nutrient?

**Sulfur**

239. Kitty litter, cornmeal, sand and borax are all types of:

**Desiccants**

240. Which of the following fertilizer element is NOT a macro-nutrient?

**Zinc**

241. The most commonly used growth regulator to shorten stem length on lilies is:

**Captan**

242. An economic reason for pruning a plant is to:

**Rejuvenate its growth**

243. According to sales figures, what is the most popular cut flower sold in the United States?

**Chrysanthemum**

244. A number 9 florist ribbon is:

**1 3/8" wide**

245. Chemicals that enter the plant sap and move throughout the entire plant are:

**Systemic poisons**

246. Which of the following is not generally considered part of the Floriculture Industry?

**Vegetable transplants**

247. Texture in an arrangement refers to:

**The surface appearance of the arrangement**

248. Wooden picks are used to:

**Used to extend and strengthen the stems of flowers for insertion into the floral foam**

249. When a florist greens an arrangement, they are:

**Adding foliage to it so that the mechanics are hidden**

250. A wire service:

**Is a clearinghouse of floral orders**