

2009 National FFA Floriculture

Career Development Event

General Knowledge Examination

- Floriculture production in the United States is valued at about \$_____ at farm gate.
 - 4.7 billion
 - 4.7 million
 - 7.4 billion
 - 4,750,000
- The leading floriculture production states are _____, _____, and _____.
 - California, Kansas, Oklahoma
 - Texas, Florida, Iowa
 - California, Florida, Texas
 - Florida, California, Canada
- Florida floriculture crop production is valued at \$_____.
 - 765 million
 - 278 million
 - 1.02 billion
 - 765 thousand
- True or False. Watering greenhouse plants is one of the easiest jobs faced by growers.
 - true
 - false
- When should plants be watered?
 - just before sunrise
 - mid-day with the sun overhead
 - just before wilting or water stress occurs
 - right when leaves start to fall
- Perched water table means that the container has _____ at the bottom of the container right after watering, when drainage has occurred.
 - free-water
 - no water
 - root water
 - vitamin water
- This is _____ because it is not held by the root medium.
 - root water
 - vitamin water
 - free-water
 - tunic
- _____ factors need to be considered to achieve a successful fertility program.
 - Seven
 - Nine
 - Five
 - Two
- 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.
 - hydrogen- carbon monoxide
 - nitrogen-potassium
 - hydrogen- nitrogen
 - potassium- calcium
- The optimum ph range for most crops growing in a soilless medium is_____.
 - 1.4-4.8
 - 5.8-6.4
 - 6.5-7.9
 - 3.5-4.4

11. American floriculture crops are considered to be _____ quality if they are well branched and _____, with multiple flowers that open _____.
 a. high, full, simultaneously b. high, thin, simultaneously
 c. high, full, individually d. high, thin, individually
12. True or False. Pinching artificially accelerates a plant's branching and growers commonly use three types of pinches.
 a. true b. false
13. The process of pinching a plant removes the _____ factory and eliminates the _____ concentration of the _____ hormone from the upper portion of the plant.
 a. auxin, high, inhibitory b. tunic, low, hibitory
 c. high, low, inhibitory d. auxin, high, hibitory
14. When the source of _____ is removed, the concentration of the _____ drops quickly, thereby releasing lateral branches from _____ dominance and allowing them to develop.
 a. tunic, hormone, atypical b. auxin, inhibitory, apical
 c. auxin, hormone, apical d. tunic, potassium, atypical
15. A time tested rule is to pinch when roots are _____ and _____ of the _____ after removing the plant from its pot.
 a. not visible at the sides, top, medium b. visible at the sides, top, medium
 c. visible at the sides, bottom, medium d. not visible at sides, bottom, medium
16. _____ growers first began growing their rose plants using bent stems in the 1980's.
 a. American b. European
 c. Netherland d. Japanese
17. Rose plants used for the bent stem technique are started as _____ node cuttings, which are rooted and grown frequently in _____.
 a. double, lamb's wool cubes b. single, rock wool cubes
 c. single, lite soil mix d. double, rich soil mix
18. Cut roses are divided into hybrid teas, spray roses and _____.
 a. stilt b. sweethearts
 c. lovers rose d. new beginning rose
19. There are less than _____ dozen rose breeders specializing in commercial cut flower varieties.
 a. one b. three
 c. two d. half
20. Roses generally are graded according to _____ of stem.
 a. width b. fullness
 c. length d. water weight

21. The greenhouse comes "alive" only after its _____, or _____, is applied. A glazing's primary purpose is to allow _____ into the greenhouse while allowing the grower to manipulate the environment _____ the greenhouse.
 - a. soil, medium, soil, outside
 - b. benches, shelves, light, inside
 - c. cover, medium, light, inside
 - d. glazing, cover, light, inside
22. There is/are _____ type(s) of growing floors.
 - a. 2, natural soil, mesh
 - b. 3, natural soil, sand and gravel floors, fish netting
 - c. 5, natural soil, sand and gravel floors, ground cloth, porous concrete, concrete
 - d. 1, natural soil
23. The _____ component of watering is the easy part because the scientific principals can be taught and learned. The _____ of watering is extremely difficult to teach. It is determining when plants need to be watered and then applying water properly.
 - a. science, art
 - b. pouring, knowledge
 - c. art, knowledge
 - d. science, spraying
24. While it cost _____ to produce pinched plants in terms of _____ and _____, the _____ quality is achieved with pinched plants in terms of size, fullness and flower performance.
 - a. less, fluffiness, production, best
 - b. more, production, storage, lower
 - c. more, labor, time, highest
 - d. less, labor, time, lowest
25. True or False. Flower arranging differs from other arts in that it has its own media (arrangers grow their own materials).
 - a. True
 - b. False
26. The Japanese confine their displays of flower arrangements to specific areas as a matter of _____ and _____.
 - a. celebration, pride
 - b. celebration, custom
 - c. ritual, custom
 - d. custom, celebration
27. The Chinese method of handling flowers is founded on _____, preservation of life, and appreciation of _____.
 - a. simplicity, colors
 - b. symbolism, beauty
 - c. contemplation, colors
 - d. simplicity, beauty
28. Confucius taught that real enjoyment consist of _____ and _____.
 - a. contemplation, colors
 - b. simplicity, beauty
 - c. simplicity, contemplation
 - d. symbolism, beauty
29. True or False. A few flowers in a vase can describe the whole life history of a plant, as well as display the beauty of a perfect bloom.
 - a. True
 - b. False

30. A creative art form using space along with line, form, color, and texture to create the floral arrangements by using plant material and other components.
 - a. asymmetrical balance
 - b. abstract design
 - c. background
 - d. free standing
31. Two or three colors adjacent to each other on the color wheel.
 - a. analogous color harmony
 - b. abstract design
 - c. artificial
 - d. balance
32. Two sides of a vertical axis in an arrangement that are different in composition but equal in visual weight.
 - a. monochromatic color harmony
 - b. dish garden
 - c. linear form
 - d. asymmetrical balance
33. A circle of greens decorated with fruits, nuts, cones, seed pods, or berries typical of the Renaissance period.
 - a. Tussy Mussy
 - b. composition
 - c. Della Robbia Wreath
 - d. flower arranging
34. The art of placing floral material in a container in a pleasing manner following various artistic principles.
 - a. flower arranging
 - b. design
 - c. Della Robbia Wreath
 - d. formal
35. Bringing plants into bloom at a time other than normal in nature.
 - a. free-form design
 - b. free standing
 - c. forcing
 - d. novelty
36. A circle of small flowers arranged around one central flower similar to a nosegay.
 - a. composition
 - b. design
 - c. Tussy Mussy
 - d. Della Robbia Wreath
37. A new concept in creative art form free from conventional ideas and patterns, nongeometric.
 - a. free-form design
 - b. accent
 - c. flower arranging
 - d. abstract design
38. An all around arrangement to be viewed from all sides.
 - a. flower arranging
 - b. asymmetrical balance
 - c. free standing
 - d. novelty
39. Tints, tones, and shades of one hue.
 - a. tone
 - b. monochromatic color harmony
 - c. analogous color harmony
 - d. cool colors

40. A tight hand bouquet of fragrant flowers.
 - a. terrarium
 - b. inflorescence
 - c. Tussy Mussy
 - d. nosegay
41. A container of unusual form or shape such as a heart, animal, etc.....
 - a. terrarium
 - b. niche
 - c. container
 - d. novelty
42. Probably the most influential factor in advancing flower arrangement in this country has been the _____.
 - a. In Bloom Again Florist
 - b. The Garden Club of America
 - c. National Council of State Garden Clubs
 - d. Federated Garden Clubs of America
43. The American Style of flower arrangement stresses clear cut designs, _____, _____, and _____ of expression.
 - a. spiritual feelings, texture, hint
 - b. plant forms, originality, freedom
 - c. origin, space, color
 - d. free stance, color, touch
44. In any style of flower arranging, past or present, American, European, or Oriental, there are _____ to be considered _____.
 - a. 3 design elements, balance, space and harmony
 - b. 5 principle elements, line, balance, color, scale and harmony
 - c. 6 design elements, line, form, space, texture, color and harmony
 - d. 7 principle elements, balance, scale, rhythm, repetition, unity, focus and harmony
45. There are _____ of design. All the _____ of design should be present in every good arrangement, but their relative importance will vary. They are _____.
 - a. 7 principles, principles, balance, scale, rhythm, repetition, unity, focus, and harmony
 - b. 6 principles, principles, line, form, space, texture, color, and harmony
 - c. 5 elements, elements, line, balance, color, scale and harmony
 - d. 3 elements, elements, balance, space and harmony
46. True or False. Various colors will produce different emotional and psychological effects.
 - a. True
 - b. False
47. Violets and purples give a _____ sometimes _____.
 - a. angry emotions, aggression
 - b. spiritual feeling, sad
 - c. happy feelings, joy
 - d. depressed emotions, suppressed attitude
48. Tints of various hues will normally be _____, while tones tend to give a _____ effect.
 - a. depressing, uplifting
 - b. spiritual, depressed
 - c. uplifting, soothing
 - d. soothing, abnormal

49. _____ can be either warm or cool; it takes on the feelings of the colors with which it is associated.
- | | | | |
|----|----------|----|---------|
| a. | Textures | b. | Yellows |
| c. | Hues | d. | White |
50. The Easter lily crop is difficult to grow because...
- a. the Easter Lily is so very delicate.
 - b. the Easter Lily can only bloom one week before Easter.
 - c. Easter falls on a different date each year.
 - d. Easter is based on a Christian celebration.