

STATE FFA FLORICULTURE CDE
GENERAL KNOWLEDGE SECTION
1999

Directions: Select the best answer for each question and mark your selection on the separate answer sheet provided. Darken the space completely on the answer sheet that corresponds to the best answer for each item.

1. _____ is one of the greatest causes of failure in growing house plants.
A. Vandalism
B. Under-fertilization
C. Watering
D. Pinching
2. The most serious pesticide poisonings occur:
A. On windy days
B. During mixing and loading
C. After dark
D. From an airplane
3. _____ are horizontal underground stems.
A. Rhizomes
B. Tubers
C. Stolons
D. Corms
4. The measure of how poisonous a chemical is after a single exposure is _____ toxicity.
A. chronic
B. bad
C. accurate
D. acute
5. LD₅₀ is the measure for _____ toxicity.
A. oral
B. inhalation
C. herbal
D. none of the above
6. All soil used in a house plant mixes should be sterilized to kill certain pests. Which of the following is **Not** one of the organisms that will be killed during sterilization?
A. insects
B. Rodents
C. Weed seed
D. disease organisms
7. _____ is a sterile, lightweight mica product.
A. Peat
B. Perlite
C. Coir
D. Vermiculite
8. Orchids like _____% to _____% humidity.
A. 50-80
B. 30-40
C. 80-90
D. 10-15
9. The _____ in the stems produces all new cells.
A. xylem
B. cambium
C. lenticels
D. phloem

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10. The organic compounds that affect the enlargement and division of cells, tissue differentiation, dormancy, leaf aging, and leaf drop are known as _____.

- A. Cytokinins
C. Gibberelins
- B. Abscisic Acid
D. Ethylene
11. A plants response to temperature is known as :
A. Photoperiodism
C. Angiotrophism
- B. Thermotropism
D.. None of the above
12. What is the fertilizer element that is used by the plant to make chlorophyll molecules?
A. Nitrogen
C. Phosphorus
- B. Potassium
D. Calcium
13. In Floral Design, placing objects in strategic locations to create a visual feeling of stability in a design is known as _____.
A. accent
C. proportion
- B. rhythm
D. balance
14. Baby's Breath is an example of a _____ flower.
A. mass
C. form
- B. filler
D. foliage
15. The insecticide Mr. Jones sprayed in his greenhouse had a skull and crossbones on the label. What is the allowed re-entry time for the area treated with this chemical?
A. 24 hours
C. 48 hours
- B. 12 hours
D. immediately
16. _____ is the branch of horticulture dealing with the production, storage, processing, and marketing of vegetables.
A. Pomology
C. Olericulture
- B. Floriculture
D. All of the Above
17. A flower containing both stamens and pistils is known as a _____ flower.
A. perfect
C. imperfect
- B. incomplete
D. pistilate
18. Which of the following is **not** necessary for seed germination?
A. Light
C. Moisture
- B. Soil
D. Optimal temperature

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19. The ability of a plant to withstand colder temperatures is known as _____.
A. toughness
C. temperate
- B. strength
D. hardiness
20. _____ is using foliage plants inside buildings to create the feeling of outdoors.
A. Landscaping
C. Naturalizing
- B. Interiorscaping
D. Pollinating
21. _____ describes the evaporation of water from the plant leaf.

- A. Turgidity
C. Transportation
- B. Precipitation
D. Transpiration
22. What is added to acidic soil to raise the pH?
A. Organic matter
C. Lime
- B. sand
D. A high Nitrogen fertilizer
23. Which of the following is the proper sequence of the layers of a leaf?
A. Lower epidermis, chloroplasts, spongy tissue, palisade layer, upper epidermis.
B. Lower epidermis, spongy layer, palisade layer, chloroplasts, upper epidermis
C. Lower epidermis, spongy layer, chloroplasts, palisade layer, upper epidermis
D. Lower epidermis. palisade layer, chloroplasts, spongy layer, upper epidermis
24. **IPM** is an acronym for:
A. Integrated pest material
C. Integrated pest management
- B. Intensive pest management
D. Intensive pest material
25. The petals on a flower are actually leaves.
A. True
- B. False
26. Superior nursery is selling begonias, petunias and marigolds at \$9.50 per flat and impatiens, and ageratum at \$11.75 per flat and Dusty Miller, salvia and snapdragons at \$7.25per flat. Mrs. Cooper buys 3begonias, 2 marigolds, 1 Dusty Miller, 1 impatiens, and 4 salvia. The tax is 6 percent. What is her total cost?
A. \$95.50
C. \$101.23
- B. \$96.50
D. \$100.23
27. The fertilizer element _____ increases the plant's resistance to disease.
A. Potassium
C. Nitrogen
- B. Zinc
D. Phosphorus

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28. Which of the following would not be effective in lowering the pH in alkaline soils?
A. Applying sulfur
C. Applying aluminum sulfate
- B. Applying lime
D. Applying iron sulfate
29. _____ seed are those that are soaked in a salt solution of KCL or ethyl alcohol in order to make the growth hormones or enzymes to become active and the seed radical or young root to start growth.
A. Primed
C. Propagated
- B. Scarified
D. None of the above
30. Soil sterilization requires heating the soil at
A. 160°F for two hours
C. 180°F for half an hour
- B. 120°F for two hours
D. None of these
31. The watering system that uses the least amount of water
A. overhead irrigation
C. trickle tube
- B. hand watering
D. capillary mat

32. The best disease control program is started with
 A. regular inspection for disease
 B. a good spray program
 C. a sterile planting media, container, and a sanitary environment
 D. all of the above
33. When transplanting bedding plants, the soil temperature needs to be
 A. 50°F B. 70°F C. 65°F D. 60°F
34. Which of the following is considered to be a *cool color* in a floral design?
 A. yellow B. red C. orange D. green
35. A *Jardiniere* is a
 A. fancy calligraphic design for floral designs.
 B. decorative container used to hold potted plants.
 C. decorative ribbon used in floral arrangements.
 D. none of the above.
36. _____ is a rigid greenhouse covering that is made of double layers, has high light transmission, is flame retardant and has the strongest resistance to breakage.
 A. Polyethylene B. Fiberglass
 C. Polycarbonate D. Glass

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37. Silt has soil particles from _____ to _____ mm in diameter.
 A. 0.05 to 0.002 B. 0.5 to 0.002
 C. 0.05 to 0.02 D. 0.005 to 0.0002
38. Jan works at Sunshine Florist after school and on Saturday mornings. She is paid \$5.65 per hour. On the week of March 5, she worked 29 3/4 hours. If the florist withheld \$6.38 for taxes and Social Security, what would be her gross pay.
 A. \$161.71 B. \$174.47
 C. \$164.47 D. \$168.09
39. Which of the following fertilizer elements is **Not** a micro-nutrient?
 A. Chlorine B. Calcium C. Boron D. Manganese
40. A _____ is the entire whorl of petals.
 A. receptacle B. calyx
 C. sepal D. corolla
41. Which of the following would **Not** be listed on a pesticide label?
 A. The original formulator B. Manufacturer
 C. storage and disposal statement D. Registration Number
42. Which of the following bulbs are the easiest for forcing?
 a. Tulips B. Freesias C. Daffodils D. Amaryllis
43. _____ is a process of events whereby the seed embryo goes from a dormant state to an active growing state.

- A. Transpiration
- B. Germination
- C. Propagation
- D. Marginalization

44. Which of the following is an advantage of germinating seed in 1020 poly-flats?
- A. Little transplant shock
 - B. Transplanting is faster, so labor saving
 - C. Little equipment is necessary
 - D. Disease can be confined
45. Which of the following is not a cost efficient method of cooling a greenhouse?
- A. Fan-tube ventilation system
 - B. Fan and pad cooling system
 - C. Central air-conditioning system
 - D. Natural ventilation system
46. _____ is the simplest form of pruning and is used to encourage lateral branching, remove unwanted growth, and increase the size of flowers.
- A. Snipping
 - B. Clipping
 - C. Pinching
 - D. B & C

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47. Which of the following plant growth regulators could be used on Poinsettias to shorten stem length?
- A. Cycocel
 - B. Arest
 - C. B-Nine
 - D. all of the above
48. Which of the following are primary colors?
- A. blue, yellow and green
 - B. green, orange and blue
 - C. red, yellow and blue
 - D. blue, red and green
49. The color harmony produced by using various shades, tints, and tones of one color is called:
- A. split complementary harmony
 - B. monochromatic harmony
 - C. triad harmony
 - D. direct complementary harmony
50. The most popular form of asexual reproduction of plants is
- A. T-budding.
 - B. grafting.
 - C. layering.
 - D. cuttings.