

2008 State FFA Floriculture CDE  
Written Test

**Directions:** Using a #2 pencil, mark your answers on the scantron.

1. What structure is the xylem and phloem combined?  
a. cambium    b. pith    c. vascular bundle    d. phloem
2. What are all the sepals of a flower as a group?  
a. stamen    b. filament    c. corolla    d. style
3. Which of these is **not** a macronutrient?  
a. phosphorous    b. iron    c. potassium    d. nitrogen
4. What tool is used to cut thin-stemmed flowers and foliage?  
a. ribbon shears    b. floral shears    c. knife    d. loppers
5. What gauge wire is use for delicate corsage work?  
a. 16-20    b. 20-22    c. 24-26    d. 28-31
6. What is a closely spaced grouping of flowers in a floral arrangement?  
a. harmony    b. line    c. mass    d. rhythm
7. What is the name of the secondary growth at the base of a petiole?  
a. rachis    b. blade    c. stipules    d. leaflet
8. What term is used for the central stem of a compound leaf?  
a. stipules    b. petiole    c. leaflet    d. rachis
9. The ability of a plant to survive in cold temperatures is called \_\_\_\_.  
a. evergreen    b. hardiness    c. deciduous    d. acclimated
10. What term describes the strength or effectiveness of a chemical?  
a. toxicity    b. poisonous    c. lethality    d. potency
11. Which symbol identifies Class II pesticides?  
a. "Toxic"    b. "Restricted Use"    c. "Warning"    d. "Danger"
12. What are insecticides made from dried, powdered chrysanthemum flowers?  
a. pyrethrum    b. herbicide    c. avicide    d. fungicide

13. What is the sac-like structure on top of the filament of a flower?  
a. anther    b. stigma    c. style    d. ovary
14. What is the male reproductive part of the flower?  
a. stigma    b. stamen    c. corolla    d. style
15. How many cubic inches are in a cubic foot?  
a. 144    b. 1,728    c. 740    d. 3,250
16. The measure of acute oral and dermal toxicity dose is expressed as \_\_\_\_.  
a. LC50    b. LD50    c. LD25    d. LC25
17. What is considered a neutral pH?  
a. 6.0    b. 6.9    c. 7.0    d. 7.5
18. What is the inorganic media material made from crushed, volcanic rock?  
a. vermiculite    b. perlite    c. medium    d. organic materials
19. What should be added to a soil to raise the pH level?  
a. aluminum sulfate    b. osmocote    c. potassium nitrate    d. gypsum
20. What is the volume of a raised flower bed that is 10' x 5' x 4'?  
a. 100 cubic feet    b. 100 square feet    c. 200 square feet    d. 200 cubic feet
21. What branch of horticulture involves the production and care of vegetables?  
a. olericulture    b. pomology    c. floriculture    d. agronomy
22. If you have 48 cubic yards of vermiculite, how much peat moss will you need to mix a 3:2 ratio of vermiculite to peat moss?  
a. 32 cubic yards    b. 16 cubic yards    c. 18 cubic yards    d. 32 cubic feet
23. Which type of fire extinguisher will you need to put out an electrical fire?  
a. Class A    b. Class B    c. Class C    d. Class D
24. What is the evaporative process in which a plant loses moisture through small openings in the leaves?  
a. leaching    b. capillary action    c. turgidity    d. transpiration
25. At what temperature is water considered to be tepid?  
a. 65 degrees    b. 72 degrees    c. 75 degrees    d. 80 degrees

26. What type of floral arrangement has its spine or main line of weight through the center with equal weight on either side?  
a. asymmetrical    b. symmetrical    c. floral arrangement    d. floral design
27. How many cubic yards are in 108 cubic feet?  
a. 4    b. 36    c. 54    d. 324
28. Which is **not** one of the three elements a fire has to have in order to burn?  
a. fuel    b. heat    c. carbon dioxide    d. oxygen
29. What is the bar running the length of the greenhouse roof that supports the sash bar?  
a. purlin    b. ridge    c. roof    d. eave
30. A plant converts sugar to starches, which are then \_\_\_\_\_.  
a. stored  
b. transpired  
c. used by the plant  
d. converted to carbon dioxide and water
31. What do plants use during photosynthesis to make carbohydrates?  
a. water, sugar, sunlight, chlorophyll  
b. water, carbon dioxide, sunlight and chlorophyll  
c. water, sunlight and chlorophyll  
d. carbon dioxide, sunlight and oxygen
32. What is the reverse process of photosynthesis?  
a. transpiration    b. phototropism    c. respiration    d. oxidation
33. The corky center of a dicot stem is the \_\_\_\_\_.  
a. cotyledon    b. cambium    c. xylem    d. pith
34. What is a vertical, deep-penetrating central root with few lateral roots?  
a. taproot    b. adventitious root    c. fibrous root    d. lateral root
35. Which part of a plant transports food from leaves to other parts of the plant?  
a. cambium    b. pith    c. phloem    d. xylem
36. What is a bud growing at the tip of a stem?  
a. petiole bud    b. lateral bud    c. node bud    d. terminal bud
37. Where do flowers, fruits or leaves naturally separate from the plant?  
a. stem    b. leaf    c. abscission layer    d. internode

38. Where do both leaves and buds appear on the stem?  
a. leaf    b. internode    c. terminal    d. node
39. On the color wheel, which color is **not** a secondary color?  
a. purple    b. green    c. violet    d. orange
40. What number is given to a ribbon that is 2" wide?  
a. #5    b. #9    c. #16    d. #40
41. What holds plant materials in place in a floral arrangement?  
a. filler    b. foundation    c. mass    d. accessories
42. What type of plant loses their foliage at the end of the growing season?  
a. annual    b. conifer    c. deciduous    d. dormant
43. What are the slender organs on a vine that are used for climbing and are formed by modification of a branch, leaf or flower stalk?  
a. bract    b. holdfast    c. catkin    d. tendrils
44. Plants that are tolerant and capable of withstanding adverse conditions or pests are \_\_\_\_.  
a. resistant    b. dormant    c. immune    d. cultivar
45. What is the first root to emerge from a seedling?  
a. plumule    b. cotyledon    c. radicle    d. seed coat
46. The second name in a botanical name, which is not capitalized, denotes the plant \_\_\_\_.  
a. cultivar    b. scientific name    c. species    d. genus
47. In the composition of average soil particles, what percentage is water?  
a. 25%    b. 30%    c. 35%    d. 40%
48. What is the pH level of vermiculite?  
a. 6.0    b. 6.5    c. 7.0    d. 7.5
49. What growing medium additive is used to improve moisture absorption and retention?  
a. perlite    b. organic matter    c. gypsum    d. vermiculite
50. In order to determine soil texture using a textural triangle, the percentage of sand, clay and \_\_\_\_ must be known.  
a. loam    b. nitrogen    c. microns    d. silt