

# 2007 South Dakota Floriculture Career Development Event

## General Knowledge Test

For each question, select the **best** answer, then completely blacken the corresponding circle on your scantron answer sheet.

- It is generally best to re-cut flower stems by:  
A. Using a scissors  
B. Using a hatchet  
C. Smashing them with a mallet  
D. **Using a sharp knife**
- The metabolism of oxygen and breakdown of carbohydrates in cells to release energy is called:  
A. Photosynthesis  
B. Transpiration  
C. **Respiration**  
D. Infatuation
- Growing medium kept too wet will deprive plants of:  
A. Plant hormones  
B. Carbon dioxide  
C. **Oxygen**  
D. Respiration
- The size relationship of a floral arrangement with its surroundings is:  
A. Balance  
B. Rhythm  
C. **Scale**  
D. **Harmony**
- Which of the following is a shade-loving flower?  
A. Roses  
B. Geraniums  
C. Salvia  
D. **Impatiens**
- The genus and species name for the Jade Plant is:  
A. *Phylodendron oxycardium*  
B. ***Crassula argentea***  
C. *Ficus benjamina*  
D. *Dracaena fragrans*
- The most common summer cooling system in greenhouses is:  
A. Swamp coolers  
B. Low pressure mist  
C. High pressure fog  
D. **Fan-and-pad evaporative cooling**
- The primary macro-nutrients are:  
A. Nitrogen, phosphorus and calcium  
B. Iron, manganese and zinc  
C. Aluminum, phosphorous and potassium  
D. **Nitrogen, phosphorus, and potassium**
- \_\_\_\_\_ involves incorporating water soluble fertilizer into the irrigation systems of greenhouse and nursery crops.  
A. Nitrification  
B. Slow-release fertilization  
C. **Fertigation**  
D. Chemigation
- The most common stem support mechanic used by florists in fresh cut flower arrangements is:  
A. Chicken wire  
B. **Floral foam**  
C. Cardboard  
D. Hot glue

11. A leaf with parallel venation:
- |                      |                        |
|----------------------|------------------------|
| A. Is a dicot        | B. <b>Is a monocot</b> |
| C. Is extremely rare | C. Is monoecious       |
12. Which of the following color schemes uses three colors equidistant from each other on the color wheel?
- |                   |                  |
|-------------------|------------------|
| A. <b>Triadic</b> | B. Monochromatic |
| C. Complimentary  | D. Harmonious    |
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. Proportion  | B. Scale        |
| C. Focal point | <b>D. Price</b> |
14. The primary colors are:
- |                           |                                 |
|---------------------------|---------------------------------|
| A. Red, green and Blue    | B. Black, white and gray        |
| C. Yellow, orange and red | <b>D. Yellow, red, and blue</b> |
15. The outer whorl of protective leaves, or sepals (flower bud leaves) of a flower are called \_\_\_\_\_
- |                 |            |
|-----------------|------------|
| A. Petioles     | B. Pistils |
| <b>C. Calyx</b> | D. Stomata |
16. An arrangement should be \_\_\_\_\_ times the height of a tall container or the length of an elongated container.
- |           |  |
|-----------|--|
| A. 3 to 4 | B. $\frac{1}{2}$ to 1                    |
| C. 2 to 3 | <b>D. <math>1\frac{1}{2}</math> to 2</b> |
17. A type of propagation in which the propagule remains attached to the parent plant is termed:
- |                    |             |
|--------------------|-------------|
| <b>A. Layering</b> | B. Grafting |
| C. Budding         | D. Cutting  |
18. The showy red, pink, or white portion of the poinsettia are:
- |            |                  |
|------------|------------------|
| A. Flowers | <b>B. Bracts</b> |
| C. Cyathia | D. Stamens       |
19. A speckled leaf appearance with fine silky strands between leaves and on lower leaf surfaces suggests the presence of:
- |               |                        |
|---------------|------------------------|
| A. Root rot   | B. Scale               |
| C. Mealy bugs | <b>D. Spider mites</b> |
20. Aphids can promote growth of \_\_\_\_\_ due to the honeydew they excrete.
- |                   |                            |
|-------------------|----------------------------|
| A. Powdery mildew | B. Spider mites            |
| C. Root rot       | <b>D. Black sooty mold</b> |



32. Popular colors to use in floral designs during the spring and Easter season include:
- |                             |                                   |
|-----------------------------|-----------------------------------|
| A. Orange, black and yellow | B. Red, pink and white            |
| C. Green, red and gold      | <b>D. Pink, yellow, and white</b> |
33. A good, light-weight substitute for sand, this material provides for aeration in the growing media:
- |             |                   |
|-------------|-------------------|
| A. Peatmoss | <b>B. Perlite</b> |
| C. Clay     | D. Loam           |
34. When preparing a symmetrical triangular floral arrangement, the \_\_\_\_\_ flowers are placed first in the design.
- |                         |                  |
|-------------------------|------------------|
| A. Mass                 | B. Filler        |
| <b>C. Line/skeletal</b> | D. Complimentary |
35. Secondary macro-nutrients are:
- |  |                                       |
|--|---------------------------------------|
| <b>A. Calcium, magnesium, and sulfur</b> | B. Nitrogen, phosphorus and potassium |
| C. Boron, manganese, aluminum            | D. Oxygen, carbon and nitrogen        |
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. \$17.00        | C. \$72.00 |
| <b>C. \$60.00</b> | D. \$36.00 |
37. The design principle of total compatibility of all parts of an arrangement with each other is:
- |                   |              |
|-------------------|--------------|
| A. Repetition     | B. Scale     |
| <b>C. Harmony</b> | D. Synchrony |
38. A hue with white added is:
- |                |                  |
|----------------|------------------|
| <b>A. Tint</b> | B. Primary       |
| C. Secondary   | D. Complimentary |
39. The flower part that contains the pollen is the:
- |                  |             |
|------------------|-------------|
| A. Stigma        | B. Filament |
| <b>C. Anther</b> | D. Ovary    |
40. Most fresh cut flowers are best stored at \_\_\_\_\_ °F.
- |             |                    |
|-------------|--------------------|
| A. 28 to 34 | C. 50 to 60        |
| C. 60 to 70 | <b>D. 35 to 45</b> |
41. Flowers and colored bracts are initiated in the poinsettia as days become:
- |           |                   |
|-----------|-------------------|
| A. Longer | <b>B. Shorter</b> |
| C. Colder | C. Sunnier        |
42. Most floral preservatives contain a source of sugar, an acidifying agent and
- |                                    |                    |
|------------------------------------|--------------------|
| <b>A. A fungicide/bacteriacide</b> | B. Fertilizer      |
| C. Calcium                         | D. Rooting hormone |

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. Capitalism
  - B. Reverse merchandising
  - C. Return on expenses
  - D. Profit pricing**
44. Appropriate refrigeration of cut floral materials involves both temperature and humidity control to:
- A. Slow down respiration**
  - B. Increase respiration
  - C. Increase photosynthesis
  - D. Eliminate respiration
45. The \_\_\_\_\_ method of wiring is commonly used to wire flowers having large, thickened calyxes such as carnations and roses.
- A. Circle-tying
  - B. Overhand
  - C. Invisible
  - D. Piercing**
46. The term that refers to all the petals of a flower collectively is:
- A. Bloom
  - B. Monoecious
  - C. Spectrum
  - D. Corolla**
47. Irregularly shaped holes with smooth edges appear in *Hosta* leaves. Some leaves are even missing. The plants should be treated for:
- A. Spider mites
  - B. Mealybugs
  - C. Slugs and snails**
  - D. Scale
48. \_\_\_\_\_ are sucking insects that secrete a sticky honeydew substance:
- A. Spider mites
  - B. Grasshoppers
  - C. Slugs and snails
  - D. Aphids**
49. Secondary colors consist of:
- A. Orange, green, and violet**
  - B. Yellow, green and red
  - C. Purple, orange and pink
  - D. White, gray and black
50. Silk flowers are often referred to as:
- A. Permanent flowers**
  - B. Glycerin treated
  - C. Long-term flowers
  - D. Transparent flowers