



2019 Floriculture Career Development Event

Created: Oct-19

Select the best answer for each question and mark your selection on the separate scantron sheet provided. Mark answers in the **Exam** section on the scantron located in the bottom right hand corner.

MULTIPLE CHOICE

1. Wreaths, garlands, loose flowers and petals were the floral design styles used during which historical floral period?
 - A. Greek and Roman
 - B. Victorian
 - C. Art Deco
 - D. Art Nouveau
2. Which historical floral period includes floral design styles that were massed, rounded and fan shaped?
 - A. Egyptian
 - B. Art Deco
 - C. American Colonial
 - D. Oriental
3. Which principal of design is defined as '*a oneness or being complete in itself*'?
 - A. Harmony
 - B. Unity
 - C. Proportion
 - D. Line
4. What color adaptation is created by adding gray to a pure hue?
 - A. Chroma
 - B. Tint
 - C. Tone
 - D. Shade
5. Which color scheme or color harmony includes hues that are adjacent to each other on the color wheel?
 - A. Complementary
 - B. Analogous
 - C. Monochromatic
 - D. Triadic

6. When an arrangement is too small for its surroundings, it is said to be out of _____.
 - A. Harmony
 - B. Tone
 - C. Rhythm
 - D. Proportion

7. Which color harmony uses two hues that are directly opposite to each other on the color wheel?
 - A. Complementary
 - B. Analogous
 - C. Monochromatic
 - D. Triadic

8. An appropriate lightweight wire to use for corsage construction is:
 - A. #18 gauge
 - B. #9 gauge
 - C. #22 gauge
 - D. #28 gauge

9. Chrysanthemums, Asters, Daisies, and other flat-faced flowers are wired for corsages using which method?
 - A. Pierce
 - B. Hook-Wiring
 - C. Stitch
 - D. Clutch or Wrap-Around

10. Which item is a floral piece worn by a man and typically worn on the right-side jacket lapel, near the buttonhole?
 - A. Corsage
 - B. Wristlet
 - C. Boutonniere
 - D. Clutch

11. Which of the following elements of design allows each flower/form to have its own individual importance?
- A. Depth
 - B. Space
 - C. Form
 - D. Line
12. Which bouquet style would be best for a full wedding gown with a long train?
- A. Tussy Mussy
 - B. Cascading
 - C. Presentation
 - D. Round Cluster
13. A Hogarth Curve floral design is created by
- A. An "O" shape
 - B. A "C" shape
 - C. A "S" shape
 - D. A "H" shape
14. Clogged stems in cut flowers are caused by an air embolism. An air embolism is
- A. Where disease organisms move into the flower from the air clogging the stem.
 - B. Where a bubble of air enters the xylem preventing water from reaching the flower.
 - C. Where the difference between room and flower cooler temperature clog the stem.
 - D. Where the flower stem clogs when the flower cooler temperature drops below 36 degrees F.
15. Which wiring method should be used for carnations when they are to be used in corsages and boutonnieres?
- A. Piercing
 - B. Clutch
 - C. Hook
 - D. Stitch
16. The part of the plant stem that produces all new cells is the
- A. Heartwood
 - B. Xylem
 - C. Phloem
 - D. Cambium

17. In the following list of pesticides the _____ must be mixed with water to apply.
- A. Emulsifiable concentrate
 - B. Granules
 - C. Dusts
 - D. Baits
18. An acid loving crop grows best at a pH of _____.
- A. 6.8-7.4
 - B. 6.2-6.8
 - C. 4.5-5.8
 - D. 5.8-6.2
19. Auxins and gibberellic acid are hormones in plants that promote growth through _____.
- A. Cell division
 - B. Cell enlargement
 - C. Cell specialization
 - D. Cell protection
20. Double layer poly should have how much space between layers for proper inflation and full insulation?
- A. 1 inch
 - B. 12-14 inches
 - C. At least 2 feet
 - D. 6-8 inches
21. In a horticulture business, the product you choose to produce and retail should be at what price above the total production and marketing costs (all fixed and variable costs) to make it feasible to produce and sell?
- A. 100%
 - B. 150%
 - C. 250%
 - D. 500%

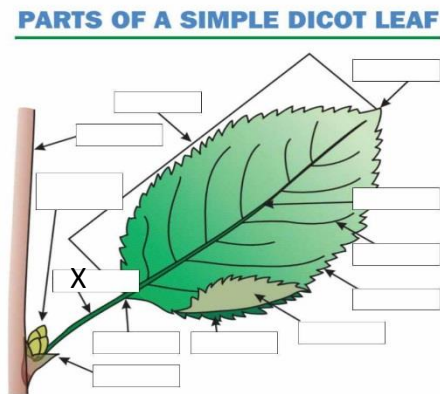
22. The amount of light a plant receives greatly influences root growth, shoot growth, and flowering. The highest quality greenhouse plants need _____ foot candles of light per day?
- A. 500-1,000
 - B. 2,000-3,000
 - C. 4,000-6,000
 - D. 7,000-8,000
23. Botrytis often presents itself on flowers as gray mold. This disease is caused by a(an) _____.
- A. Fungus
 - B. Virus
 - C. Bacteria
 - D. Environmental Condition
24. The _____ container is $\frac{1}{2}$ as high as it is wide.
- A. Standard pot
 - B. Bulb pan
 - C. Azalea pot
 - D. Mum pot
25. Greenhouse production often requires insecticides to be sprayed to prevent insect damage on flowers. Insecticides that are applied in gaseous form are _____.
- A. Systemic
 - B. Fumigants
 - C. Contact
 - D. Repellents
26. Rubber Plants are commonly reproduced through an asexual propagation method known as _____, which is shown to the right.
- A. Air layering
 - B. Compound layering
 - C. Whip or tongue grafting
 - D. Cleft grafting



27. Most plants grow best in the 40-80 percent relative _____ range. This is the amount of moisture that is contained in the air surrounding the plant.
- A. Foot candles
 - B. Particles
 - C. Humidity
 - D. Dew point
28. One popular way of identifying plants is to observe their leaf _____; which will tell the person if the leaves are opposite, alternate, whorled, etc.
- A. Arrangement
 - B. Margins
 - C. Shape
 - D. Forms
29. A growing media amendment that is grown primarily in marshes, bogs or swamps and has a high-water holding capacity is known as _____.
- A. Perlite
 - B. Vermiculite
 - C. Sand
 - D. Peat Moss
30. In order to have a year-round supply of cut flowers, such as Tulips and Crocus, that grow from bulbs; greenhouse growers are known to _____ bulbs. This means they plant bulbs out of season and grow them in a cold or refrigerated area for 10-12 weeks.
- A. Force
 - B. Fertilize
 - C. Prune
 - D. Divide
31. The waxy coating on the outside of a leaf, called the _____, serves to prevent excessive water loss from the leaf tissues.
- A. Petiole
 - B. Stoma
 - C. Cuticle
 - D. Vein

32. When a plant is showing signs of _____ deficiency, you might notice the leaves turning a dark to reddish leaf color.
- A. Nitrogen
 - B. Phosphorus
 - C. Potassium
 - D. Sunlight

33. The item “labeled X” in the figure below, is the _____, which attaches the leaf to the stem.
- A. Petiole
 - B. Stipule
 - C. Midrib
 - D. Apex



34. The _____ civilization is credited with being one of the first cultures to use floral arrangements in their homes.
- A. American
 - B. Greek
 - C. European
 - D. Egyptian

35. The height of an arrangement should be at least _____ times the container's greatest dimension.
- A. $\frac{1}{2}$
 - B. $1\frac{1}{2}$
 - C. 3
 - D. 5

36. Flowers, such as Baby's Breath or Aster, are commonly referred to as _____ flowers in floral arrangements.
- A. Texture
 - B. Focal
 - C. Filler
 - D. Form
37. Which of the following greenhouse substrate components is derived from volcanic rock?
- A. Vermiculite
 - B. Perlite
 - C. Peat
 - D. Bark Medium
38. Which of the following flowers could be used as a focal point in a floral design?
- A. Wax flower
 - B. Bird-of-Paradise
 - C. Miniature Carnation
 - D. Leatherleaf Fern
39. The primary benefit(s) of shading a greenhouse is (are):
- A. To keep the greenhouse temperatures lower
 - B. To reduce light intensity
 - C. To reduce pest populations
 - D. A and B
40. The process of _____ is when a plant loses water through stomata.
- A. Transduction
 - B. Translocation
 - C. Transpiration
 - D. None of the above
41. A greenhouse pest that is small with tan, feather-like wings would likely be a _____.
- A. Fungus gnat
 - B. Greenhouse whitefly
 - C. Western flower thrip
 - D. Shore fly

42. _____ is when a plant secretes a substance to inhibit growth of another plant.
- A. Allelopathy
 - B. Anthesis
 - C. Transcription
 - D. Translation
43. The first thing to do before applying a pesticide is _____.
- A. Fill the spray tank
 - B. Read the label
 - C. Put on personal protective equipment
 - D. Rinse out the sprayer tank
44. _____ is the development of a plant from a seed or spore.
- A. Scarification
 - B. Stratification
 - C. Vernalization
 - D. Germination
45. Aluminum can affect the color of what florist's flower?
- A. Hydrangea
 - B. Dahlia
 - C. Zinnia
 - D. Asiatic Lily
46. If one were to make a tint of yellow, what color would be added?
- A. Black
 - B. Gray
 - C. White
 - D. Any of the above
47. Which of the following could be used to preserve or dry flowers and foliage?
- A. Silica gel
 - B. Sand
 - C. Glycerin
 - D. All of the above

48. Which of the following would be a direct cost in a floral shop:

- A. Cut flowers in the cooler
- B. Insurance for the shop's building
- C. Energy bills
- D. Membership fee for FTD

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

- A. Two tentacles
- B. Six legs
- C. Two pairs of wings
- D. Three body segments

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

- A. Direct sunlight
- B. Bright indirect light
- C. Medium light
- D. Bright light



2019 Floriculture Career Development Event

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FLORICULTURE: EXAM SECTION KEY

| Question | Answer | Point Value | Standard | Standard | Standard |
|----------|--------|-------------|-----------------|----------|----------|
| 1. | A | 4 | CS.02.02.02.C. | | |
| 2. | C | 4 | CS.02.02.02.C | | |
| 3. | B | 4 | PS.04.02.01.C. | | |
| 4. | C | 4 | PS.04.02.01.C. | | |
| 5. | B | 4 | PS.04.02.01.C. | | |
| 6. | D | 4 | PS.04.02.01.C. | | |
| 7. | A | 4 | PS.04.02.02.C. | | |
| 8. | D | 4 | C3.03.04.02.C. | | |
| 9. | B | 4 | PS.04.02.02.C. | | |
| 10. | C | 4 | PS.04.01.01.C. | | |
| 11. | B | 4 | PS.04.02.01.C. | | |
| 12. | B | 4 | PS.04.01.01.C. | | |
| 13. | C | 4 | PS.04.02.01.C | | |
| 14. | B | 4 | PS.02.03.02.C. | | |
| 15. | A | 4 | PS.04.02.02.C. | | |
| 16. | D | 4 | PS.02.02.03.C. | | |
| 17. | A | 4 | PS.03.03.01.C. | | |
| 18. | C | 4 | PS.01.03.02.C. | | |
| 19. | B | 4 | PS.02.02.01.B. | | |
| 20. | D | 4 | CS.04.01.02.B. | | |
| 21. | C | 4 | ABS.01.01.01.B. | | |
| 22. | C | 4 | PS.01.01.01.C. | | |

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|-----|---|---|-----------------|--|--|
| 23. | A | 4 | NRS.04.02.01.B. | | |
| 24. | B | 4 | C3.03.04.02.C. | | |
| 25. | B | 4 | PS.03.03.01.C. | | |
| 26. | A | 4 | PS.03.01.03.C. | | |
| 27. | C | 4 | PS.01.01.02.C. | | |
| 28. | A | 4 | NRS.01.02.02.B. | | |
| 29. | D | 4 | PS.01.02.01.C. | | |
| 30. | A | 4 | PS.02.02.05.C. | | |
| 31. | C | 4 | PS.02.02.04.C. | | |
| 32. | B | 4 | PS.01.03.01.C. | | |
| 33. | A | 4 | PS.02.02.04.C. | | |
| 34. | D | 4 | CS.02.02.02.C. | | |
| 35. | B | 4 | PS.04.02.01.C | | |
| 36. | C | 4 | PS.04.01.01.C. | | |
| 37. | B | 4 | PS.03.02.02.B. | | |
| 38. | B | 4 | PS.04.01.01.C. | | |
| 39. | D | 4 | PS.01.01.01.C. | | |
| 40. | C | 4 | PS.02.03.02.C. | | |
| 41. | C | 4 | NRS.01.02.03.B. | | |
| 42. | A | 4 | PS.01.03.01.C. | | |
| 43. | B | 4 | PS.03.03.04.B. | | |
| 44. | D | 4 | PS.02.02.05.C. | | |
| 45. | A | 4 | PS.01.03.01.C. | | |
| 46. | C | 4 | PS.04.02.02.C. | | |
| 47. | D | 4 | PS.03.05.03.B. | | |
| 48. | A | 4 | ABS.01.01.01.B. | | |
| 49. | A | 4 | NRS.01.02.03.B. | | |
| 50. | B | 4 | PS.02.03.01.C. | | |