



# Floriculture Career Development Event Test

## 2023 GENERAL KNOWLEDGE TEST

1. What causes the stomata on the leaf to open?
  - A. Darkness
  - B. Moisture Availability
  - C. Light
  - D. Oxygen
  
2. The ideal water-to-air ratio in the pores of the soil is
  - A. 25% air and 75% water
  - B. 60% air and 40% water
  - C. 80% air and 20% water
  - D. 50% air and 50% water
  
3. Root growth bio-stimulants do all of the following except:
  - A. Increase respiration
  - B. Improve water uptake
  - C. Increase the number of fibrous roots
  - D. Improve nutrient uptake
  
4. In floral design, the three secondary colors are:
  - A. brown, purple, white
  - B. orange, green, violet
  - C. red, yellow, blue
  - D. yellow, blue, green

5. Which of these lists of flowers are all line flowers?
  - A. Aster, daffodils, bells of Ireland, peonies
  - B. Roses, statice, carnations, sunflowers
  - C. Baby's breath, liatris, sunflowers, roses
  - D. Liatris, gladiolus, snapdragons, delphinium
  
6. Ridge and furrow greenhouses by definition, are
  - A. greenhouses built as a stand-a-lone greenhouse
  - B. greenhouses connected to one another along the length
  - C. greenhouses built as a lean-to greenhouse
  - D. greenhouses with an uneven span design
  
7. Most plants grow best at pH of
  - A. 5.4-6.0
  - B. 4.5-5.8
  - C. 6.2-6.8
  - D. 7.0
  
8. The term used for the response of a plant to the day-night cycle is
  - A. Photoperiodism
  - B. Photosynthesis
  - C. Respiration
  - D. Assimilation
  
9. Which of these LD numbers would be the most toxic pesticide?
  - A. LD50 number of 855
  - B. LD50 number of 51
  - C. LD50 number of 411
  - D. LD50 number of 126

10. The process whereby nitrogen is lost from the soil to the atmosphere is called \_\_\_\_\_.
- A. chlorosis
  - B. nitrification
  - C. denitrification
  - D. leaching
11. Which statement is not true about pot sizes used in greenhouse production?
- A. A standard pot is shorter in height than width
  - B. A bulb pan is half as high as its width
  - C. An azalea pot is not as tall as it is wide
  - D. A standard pot is equal in width and height
12. The term “forcing” in greenhouse plant production is:
- A. getting a seed to germinate and grow
  - B. the use of fans to circulate air in a greenhouse
  - C. using growth regulators to control plant height
  - D. a term used to describe the practices that get bulbs to grow and produce flowers
13. Water tubes are:
- A. a device to force water into the soil of a potted plant
  - B. a device to force water into a cool cell pad for evaporative cooling
  - C. the small tube with a weight on the end to place in a basket or potto water plants
  - D. a rubber-capped, plastic tube used for holding water and a single flower in floral work

14. The collection of petals on a flower is referred to as the:
- A. sepal
  - B. corolla
  - C. calyx
  - D. pedicel
15. 15. Flowers that have sepals, petals, stamen and pistils are called:
- A. incomplete flowers
  - B. imperfect flowers
  - C. complete flowers
  - D. determinate flowers
16. Placement of materials at different levels within the arrangement helps establish:
- A. depth
  - B. focal point
  - C. form
  - D. pattern
17. The pistil is
- A. the female part of the flower
  - B. the male part of the flower
  - C. where the seed develops
  - D. easy to find on a lilac
18. A \_\_\_\_\_ is a floral piece commonly found at a funeral.
- A. standing spray
  - B. corsage
  - C. nose gay
  - D. centerpiece arrangement

19. A 28 gauge florist wire is \_\_\_\_\_ than an 18 gauge wire.
- A. thinner
  - B. shorter
  - C. longer
  - D. thicker
20. DIF, used for height management of crops, is the difference between the daytime temperature and \_\_\_\_\_
- A. temperature requirement
  - B. morning temperature
  - C. night time temperature
  - D. none of the above
21. The fundamental guidelines to aesthetic design that govern the organization of the elements and materials in accordance with the laws of nature are known as \_\_\_\_\_
- A. elements of design
  - B. transitions of design
  - C. principles of design
  - D. none of the above
22. Which of the following is NOT a plant hormone that can be used as a plant growth regulator?
- A. ethylene
  - B. anthocyanin
  - C. abscisic acid
  - D. gibberellin
23. The virtual visual path that directs eye movement through a composition is \_\_\_\_\_.
- A. pattern
  - B. form
  - C. line
  - D. none of the above

24. The planned area within a floral design, which is devoid of flowers, foliage or other objects, but is still integral to the design is known as \_\_\_\_\_.
- A. the focal area
  - B. positive space
  - C. negative space
  - D. all of the above
25. The four raw materials needed for photosynthesis to occur in a plant are:
- A. oxygen, water, glucose, and chlorophyll
  - B. nitrogen, water, sugar, and light
  - C. carbon dioxide, water, chlorophyll, and light
  - D. light, water, glucose, oxygen
26. With mat irrigation, water moves by \_\_\_\_\_ from the mat into the root substrate in the pot to maintain constant moisture.
- A. zero-leaching
  - B. capillary action
  - C. xeri-action
  - D. overhead
27. The cost of the plant materials (i.e. cost of seeds, cutting, bulbs, or other plant propagules) would be examples of \_\_\_\_\_ costs on a financial planning sheet.
- A. wholesale
  - B. overhead
  - C. fixed
  - D. direct

28. When propagating asexually, roses can be reproduced from \_\_\_\_\_.
- A. vegetative cuttings
  - B. budded plants
  - C. grafted plants
  - D. all of the above
29. Soil pH is based on the concentration of \_\_\_\_\_ ions in the soil.
- A. calcium
  - B. hydrogen
  - C. oxygen
  - D. sulfur
30. The \_\_\_\_\_ phase begins when a plant's seed germinates and grows producing leaves, stems, and roots.
- A. annual
  - B. dormancy
  - C. reproductive
  - D. vegetative
31. The tiny pores in the epidermis of a leaf through which gas enters and escapes are \_\_\_\_\_.
- A. cuticle
  - B. petiole
  - C. stipule
  - D. stomata
32. The process of a plant losing water through the leaves in the form of water vapor is referred to as \_\_\_\_\_.
- A. dehydration
  - B. photosynthesis
  - C. respiration
  - D. transpiration

33. The waxy coating, called the \_\_\_\_\_, serves to prevent water loss from the leaf tissues.
- A. axil
  - B. blade
  - C. cuticle
  - D. vein
34. Lime furnishes \_\_\_\_\_, one of the most important of the macro food elements.
- A. potassium
  - B. phosphorus
  - C. sulfur
  - D. calcium
35. Auxin is responsible for apical dominance in plants. Auxin is produced in three places in the plant located in the\_\_\_\_\_.
- A. main stem, older leaves, and flowers
  - B. lower buds, leaf buds, and fruit
  - C. leaf petiole, shoot tips, and main older roots
  - D. shoot tips, young leaf blades, and root tips
36. A complete fertilizer is recommended for a greenhouse crop. Which fertilizer analysis below is NOT a complete fertilizer?
- A. 16-4-8
  - B. 10-0-10
  - C. 5-10-10
  - D. 17-17-17
37. Mass flowers include all of the following except:
- A. chrysanthemums
  - B. baby's breath
  - C. carnations
  - D. zinnias



38. Light intensity can be measured in units of:
- A. nanometers
  - B. micrometers
  - C. foot-candles
  - D. newtons
39. The \_\_\_\_\_ transports water and nutrients from the roots to other parts of the plant.
- A. phloem
  - B. xylem
  - C. pith
  - D. cambium
40. *Crassula argentea* is the botanical name for jade plant. *Crassula* is the \_\_\_\_\_ of the plant.
- A. family
  - B. cultivar
  - C. species
  - D. genus
41. Indolebutyric acid (IBA) is commonly used to:
- A. control insects
  - B. control diseases
  - C. raise soil pH
  - D. promote rooting of cuttings
42. A guideline for estimating the size for a floral design for a defined space is known as:
- A. rule of thirds
  - B. third rule
  - C. the golden ration
  - D. the golden rule

43. The term variegated means?
- A. leaves can only be both yellow and green
  - B. leaves have patches, stripes, or marks of different colors
  - C. leaves have only stripes of different colors
  - D. leaves are solid green with no other colors
44. Systemic dyeing occurs by plants absorbing color through the
- A. petal
  - B. leaf
  - C. sepal
  - D. stem
45. Number 9 ribbon is approximately \_\_\_\_\_ in length.
- A.  $5/8$ "
  - B.  $7/8$ "
  - C. 1 and  $7/16$ "
  - D. 2 and  $11/16$ "
46. Floral foam is one of the most basic mechanics used in the floral industry. The term hydrophilic foam is \_\_\_\_\_.
- A. a foam that absorbs water
  - B. a brand name for foam
  - C. a type of foam that does not absorb water
  - D. a foam that is used with silk, plastic, or dried flowers
47. A Hogarth curve floral design is created by:
- A. an "O" shape
  - B. a "C" shape
  - C. a "S" shape
  - D. a "H" shape

48. Clogged stems in cut flowers is caused by an air embolism. An air embolism is:
- A. where disease organisms move into the flower from 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
49. Gerbera daisies and daisy mums use the \_\_\_\_\_wiring method when used in corsages and boutonnieres.
- A. hook
  - B. clutch
  - C. piercing
  - D. stitch
50. An acid loving plant 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

## Answers To 2023 Floriculture General Knowledge Test

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|-------|-------|
| 1. C  | 26. B |
| 2. D  | 27. D |
| 3. A  | 28. D |
| 4. B  | 29. B |
| 5. D  | 30. D |
| 6. B  | 31. D |
| 7. C  | 32. D |
| 8. A  | 33. C |
| 9. B  | 34. D |
| 10. C | 35. D |
| 11. A | 36. B |
| 12. D | 37. B |
| 13. D | 38. C |
| 14. B | 39. B |
| 15. C | 40. D |
| 16. A | 41. D |
| 17. A | 42. A |
| 18. A | 43. B |
| 19. A | 44. D |
| 20. C | 45. C |
| 21. C | 46. A |
| 22. B | 47. C |
| 23. C | 48. B |
| 24. C | 49. A |
| 25. C | 50. C |