



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 pot to 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. eaf 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. $\frac{5}{8}$ "
 - B. $\frac{7}{8}$ "
 - C. 1 and $\frac{7}{16}$ "
 - D. 2 and $\frac{11}{16}$ "
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