

**2015 National FFA Floriculture
Career Development Event
General Knowledge Examination**

1. The most important consideration in setting up an irrigation system is _____ quality.
 - a) Air
 - b) Water
 - c) Soil
 - d) Piping

2. _____ refers to the brightness or dullness of the color within a hue.
 - a) Value
 - b) Intensity
 - c) Chroma
 - d) Triad

3. A standard water analysis usually includes _____, _____, and _____.
 - a) pH, EC, alkalinity
 - b) fluoride, aluminum, zinc
 - c) iron, sulfates, boron
 - d) potassium, calcium, sulfates

4. True or False: Pinching naturally accelerates a plant's branching.
 - a) True
 - b) False

5. The process of pinching a plant removes the _____ factory and eliminates the _____ concentration of the _____ hormone from the upper portion of the plant.
 - a) auxin, high, inhibitory
 - b) tunic, low, hibitory
 - c) auxin, low, hibitory
 - d) high, low, inhibitory

6. True or False: *Oriental style* arrangements are based on carefully placed branches, flowers, and small amounts of foliage.
 - a) True
 - b) False

7. Acid is injected into the irrigation water to neutralize the _____.
- a) growth
 - b) volume
 - c) alkalinity
 - d) light
8. The most common acids used for alkalinity control are _____, _____ and _____.
- a) phosphoric, sulfuric, nitric
 - b) sodium, calcium, potassium
 - c) sulfuric, magnesium, manganese
 - d) citric, ethanoic, tartaric
9. Packaging foiled plants for removal from the shop is most easily done by using:
- a) a plastic tub
 - b) a cardboard box
 - c) a sleeve
 - d) a large bag
10. True or False: Mold growth is almost always nonpathogenic to your crop.
- a) True
 - b) False
11. When several types of smaller specimens of foliage plants are placed in a brass or pottery container, a _____ is created.
- a) split complementary design
 - b) triad design
 - c) garden dish
 - d) floral leaf bowl
12. In plant nutrition, EC refers to _____.
- a) Economic Conditions
 - b) Electrical Conductivity
 - c) Environmental Conditions
 - d) Electrical Conduit
13. The general pH range for greenhouse crops in a soilless medium is _____.
- a) 5.4 – 6.8
 - b) 4.0 – 6.0
 - c) 7.2 – 8.1
 - d) 4.5 – 8.6

14. In floral design, _____ gives the illusion that all of the flower stems are coming from one point.
- a) radiation
 - b) physical balance
 - c) visual balance
 - d) symmetrical balance
15. True or False: Water alkalinity is a measure of basic ions, mainly bicarbonates and carbonates, dissolved in the water.
- a) True
 - b) False
16. _____ analysis can be conducted to determine the nutrient status of the crop or for problem solving.
- a) Stem
 - b) Foliar
 - c) pH
 - d) Chemical
17. The _____ design makes an excellent centerpiece because it is attractive when viewed from either the front or the back.
- a) right-triangular
 - b) horizontal
 - c) equilateral triangular
 - d) vertical
18. True or False: Boutonnieres should not be designed with a bow.
- a) True
 - b) False
19. Immediate steps to lower the medium's EC are _____ and _____.
- a) Increase fertilizer rate, increase fertilization frequency
 - b) Lower fertilizer rate, decrease fertilization frequency
 - c) Increase alkalinity levels, increase potassium bicarbonate
 - d) Lower potassium-calcium-magnesium ratio, decrease magnesium sulfate
20. True or False: In general, plants will become heat stressed at night temperatures above 75°F (24°C) and day temperatures above 90°F (32°C).
- a) True
 - b) False

21. The _____ tube is used to provide a stem for tube-shaped flowers.
- a) stephanotis
 - b) hairpin
 - c) skeleton
 - d) corsage
22. The four elements of design in floral arrangements are _____, _____, _____, and _____.
- a) simplicity, beauty, custom, symbolism
 - b) custom, line, color, texture, space
 - c) line, form, texture, color
 - d) none of the above
23. DIF is defined as:
- a) the difference in daytime temperature and the nighttime temperature
 - b) the difference in fertilization
 - c) data interchange format
 - d) difficulty in fertilization
24. The term *daily light integral* is used to describe the total quantity of light delivered within a 12 hour period.
- a) True
 - b) False
25. The wholesale pricing method is based on the concept that _____ of the retail selling price is made up of the wholesale value of materials being used.
- a) 20%
 - b) 40%
 - c) 60%
 - d) 50%
26. The biggest insect problems in plugs are _____ and _____.
- a) fungus gnats, shore flies
 - b) foxglove aphids, chrysanthemum aphids
 - c) silverleaf whiteflies, banded wing whiteflies
 - d) broad mites and bulb mites
27. The area of emphasis on an arrangement is called the _____.
- a) recessed focal point
 - b) radiation focal point
 - c) weak focal point
 - d) focal point accent

28. Traditional temperature regimes for greenhouse production are to run _____ days and _____ nights.
- a) cool, warm
 - b) warm, cool
 - c) cool, cool
 - d) warm, warm
29. A common flaw in establishing a focal area is to:
- a) using flowers that are too large
 - b) using flowers that are too small
 - c) crowd the flowers together very closely
 - d) not using enough flowers
30. Nitrogen deficiency, ammonium toxicity and phosphorus deficiency are some of the common reasons of _____ disorders in greenhouse crops.
- a) media
 - b) nutrient
 - c) water quality
 - d) heating
31. Line-mass arrangements which are based on straight lines include vertical, diagonal, L-shaped, and _____.
- a) crescent
 - b) inverted-T
 - c) S-curve
 - d) Hogarth curve
32. The formula for determining average daily temperature (ADT) is:
- a) $(\text{day temperature} \times \text{hours}) \div 24$
 - b) $(\text{day temperature} \times \text{hours}) \div 12$
 - c) $(\text{day temperature} \times \text{hours}) + (\text{night temperature} \times \text{hours}) \div 24$
 - d) $(\text{day temperature} \times \text{hours}) + (\text{night temperature} \times \text{hours}) \div 12$
33. True or False: A common guideline in floral design is to make the height of the arrangement at least 1-1/2 times the height of the container.
- a) True
 - b) False
34. _____ is the art of organizing the design elements inherent in plant materials, container, and accessories according to the principles of design.
- a) Color design
 - b) Flower arrangement
 - c) Proportional balance
 - d) Floral design

35. The most widely used mechanics item used for supporting flowers in arrangements is:

- a) chicken wire
- b) plastic grid
- c) tape
- d) floral foam

36. The premier student organization for young people interested in the floral industry is the _____.

- a) National Florist Association
- b) National FFA Organization
- c) National Horticulture Association
- d) Future Business Leaders Organization

37. Correcting high pH can be achieved by _____.

- a) using a high-ammonium fertilizer combined with low alkalinity
- b) using a low-ammonium fertilizer combined with high alkalinity
- c) applying potassium bicarbonate
- d) drenching soil with flowable lime

38. True or False: The stitch method is a foliage wiring technique used on solid or wide leaves so the leaves can be shaped and curved to fit the style and shape of a corsage or boutonniere.

- a) True
- b) False

39. A *half-couch casket spray* is:

- a) A triangular one-sided, hand-tied design.
- b) A small design displayed inside the casket lid.
- c) A large casket piece that is placed in the center of a closed full couch.
- d) A floral piece that is placed on the right of side of a half couch.

40. True or False: Boutonnieres should never be designed with more than a single flower.

- a) True
- b) False

41. Flower arrangements are more pleasing to the eye when their outline creates a _____ pattern.

- a) geometric
- b) round
- c) triangular
- d) crescent

42. True or False: Tulips, hyacinths, crocus, and daffodils are all flowering bulbs.
- a) True
 - b) False
43. The _____ orchid is the largest of the orchid types used by florists for corsages.
- a) Cattleya
 - b) Cymbidium
 - c) Dendrobium
 - d) Phalaenopsis
44. By tradition, on Mother's Day, a _____ flower or corsage is worn by a daughter as a symbol of love and honor for a living mother, and _____ flowers are worn as a memorial for a mother who is no longer living.
- a) white, pink
 - b) yellow, white
 - c) red, white
 - d) pink, yellow
45. High or low fertility levels can _____ crop susceptibility to _____ and _____.
- a) decrease, heat, cold
 - b) increase, insects, mites
 - c) increase, heat, cold
 - d) decrease, insects, mites
46. A _____ bouquet is a round bouquet that is based on the English nosegay of the Georgian and Victorian eras.
- a) cascade
 - b) colonial
 - c) arm
 - d) crescent
47. _____ is the application of water-soluble fertilizers through the irrigation of water.
- a) Fertigation
 - b) Irrigation
 - c) Pre-plant fertilization
 - d) Water motor-controlled injection
48. Considerations when planning a wedding include:
- a) Location of the wedding
 - b) Time of year
 - c) Budget range
 - d) All of the above

49. Accented neutral, monochromatic, analogous, and split complementary are the most common _____ used by florists in designs.

- a) color schemes
- b) floral arrangements
- c) texture arrangements
- d) lines

50. _____ is a technique of positioning plant materials very close together to cover floral foam in organized lines or areas.

- a) Binding
- b) Pillowing
- c) Pavé
- d) Terracing

Exam Key

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