

2018 MN FFA Floriculture CDE Exam

Place your answers for Questions 1-50 on the Exam portion of your scantron.

1. Honeydew on the leaves and ants crawling around a plant indicate:
 - A. slugs
 - B. aphids
 - C. thrips
 - D. fungus

2. Fertilization in a flower takes place when:
 - A. pollen grain touches the stigma
 - B. pollen grain touches the ovary
 - C. pollen is released from a flower
 - D. a sperm and egg unite

3. If a flower arrangement appears to be ready to fall over, it lacks
 - A. balance
 - B. focus
 - C. rhythm
 - D. harmony

4. It is important not to keep fruit baskets in the same cooler with fresh flowers because:
 - A. fruit flies eat flower petals
 - B. banana and apples give off an odor that is absorbed by the flowers
 - C. ethylene gas from the fruit will cause the flowers to age quickly
 - D. florists shouldn't sell fruit – that is the job of the grocery store

5. A method of applying pesticides to plants that can be effectively used in greenhouse but not outdoors is:
 - A. spraying
 - B. fumigation
 - C. dusting
 - D. soil drenching

6. A flowering pot marketed throughout the year is:
 - A. poinsettia
 - B. Easter lily
 - C. geranium
 - D. chrysanthemum

7. The word photoperiod has to do with light:
 - A. quality
 - B. duration
 - C. intensity
 - D. foot candles

8. A pathogen is:
 - A. nutritional disorder
 - B. genetically inherited disorder
 - C. special propagation technique
 - D. microorganism that causes a disease

9. A zinnia is an example of a flower having a _____ texture
- A. fine
 - B. medium
 - C. shiny
 - D. coarse
10. Foliage below the water line should be removed to:
- A. prevent the leaves from decaying, which fouls the water
 - B. prevent photosynthesis
 - C. prevent leaves from using stored food in the stem
 - D. all of the above
11. The number of flowers usually in a cymbidium orchid corsage is:
- A. two
 - B. three
 - C. four
 - D. one
12. Costs associated with making an arrangement, decorating a blooming plant or creating wedding flowers are called:
- A. direct costs
 - B. indirect costs
 - C. fixed costs
 - D. overhead
13. Pot mums in 6" pots should average _____ flowering shoots per pot.
- A. 5-10
 - B. 20-30
 - C. 60-80
 - D. 80-100
14. A grouping of closely spaced flowers, net and accessories in a hand-held floral arrangement is called:
- A. pompon
 - B. corsage
 - C. Hogarthian curve
 - D. nosegay
15. A good substitute for sand, this material provides aeration in the root media.
- A. peat moss
 - B. perlite
 - C. vermiculite
 - D. rock wool
16. The showy red, pink or white portion of the poinsettia are:
- A. flowers
 - B. bracts
 - C. petals
 - D. sepals

17. The unit of heat measurement used in the greenhouse industry is the:
- A. Btu
 - B. CCM
 - C. Ekg
 - D. Ocm
18. There are three primary ways that heat is lost in a greenhouse. Which of the following is not correct?
- A. air leakage
 - B. solarization
 - C. conduction
 - D. radiation
19. There are three basic types of pots that are commonly used in the green house industry. Which of the following is not one of the basic types?
- A. designer pot
 - B. standard pot
 - C. azalea pot
 - D. bulb pot or pan
20. Flowers which are worn by men and pinned on a lapel are called:
- A. Falcon corsage
 - B. Hand-tied bouquet
 - C. Boutonnieres
 - D. Potpourri corsage
21. This growth regulator increases the flower size of geranium and accelerates flowering in cyclamen:
- A. Auxin
 - B. Gibberellic acid
 - C. B-Nine
 - D. Ethephon
22. Analogous color harmony utilizes:
- A. A combination of the primary and secondary colors
 - B. Two colors directly opposite each on the color wheel
 - C. Tints, shades and tones of one hue
 - D. Two or three adjacent colors on the color wheel
23. The genus and species name for the carnation is:
- A. *Dianthus caryophyllus*
 - B. *Lathyrus odoratus*
 - C. *Anemone coronaria*
 - D. *Lobularia maritime*
24. When growing orchids, a hygrometer is used to measure:
- A. temperature
 - B. light
 - C. air flow
 - D. humidity

25. Upper leaves which show interveinal chlorosis probably suffer from:
- A. lack of water
 - B. a sulfur deficiency
 - C. an iron deficiency
 - D. a nitrogen deficiency
26. Marigold seed which fails to emerge, or seedling which die soon after emerging: from wet soil are the results of:
- A. damping off
 - B. cutworm
 - C. whitefly damage
 - D. foliar nematodes
27. African violets are typically propagated by:
- A. leaf cuttings
 - B. stem cuttings
 - C. air layering
 - D. root division
28. The most popular mechanics item used to support floral arrangements is:
- A. waterproof tape
 - B. floral foam
 - C. plastic grid
 - D. metal pinpoints
29. The pricing method based on 40% of retail selling price is:
- A. ratio markup
 - B. wholesale pricing
 - C. retail cost of goods
 - D. nesting pricing
30. The term "texture", as it applies to plants, includes such adjectives as:
- A. fine, medium and bold
 - B. smooth, fuzzy and spiny
 - C. Corymb, umbel and panicle
 - D. entire, serrate and lobed
31. A garden that uses a complementary color scheme is one that:
- A. uses flowers in various tints and shades of one color
 - B. uses colors closely related to one another on the color wheel
 - C. uses colors that are opposite to one another on the color wheel
 - D. combines all colors
32. The reason for putting irregularly shaped stones, or broken pieces of pottery into the bottom of a pot containing flowering plants is:
- A. they let air into the pot from the bottom
 - B. they allow the roots to grow out of the bottom of the pot
 - C. it helps the soil to drain after being watered
 - D. it is just an old tradition passed down from person to person and does not help the plants

33. The best kind of soil to plant flowers in is:
- A. sand
 - B. silt
 - C. clay
 - D. loam
34. An air circulation system in a greenhouse is operating continuously except:
- A. at night time hours
 - B. on windy days
 - C. when fan and pad cooling are in use
 - D. when the heating system is on maximum
35. The best time to water flowering plants is:
- A. in the morning
 - B. in the middle of the day
 - C. in the evening
 - D. at night
36. How many essential nutrients are essential to plant growth and reproduction?
- A. three
 - B. four
 - C. six
 - D. sixteen
37. A correct way to remove mealy bugs from plants is:
- A. dab each bug with a cotton swab dipped in rubbing alcohol
 - B. use a pesticide
 - C. use a fungicide
 - D. rinse the leaves with milk
38. Fertilizer that you add to your flowering plants contain the following elements in the correct order:
- A. potassium, nitrogen, iron
 - B. nitrogen, phosphorus, potassium
 - C. nitrogen, phosphorus, iron
 - D. nitrogen, potassium, phosphorus
39. Although technically not insects, these tiny pests can work havoc on flowering plants:
- A. thrips
 - B. aphids
 - C. red spider mites
 - D. leaf cutting beetle
40. A _____ has a flower bud within it surrounded by layers of food supply.
- A. Corm
 - B. Rhizome
 - C. True bulb
 - D. Tuber

41. Abnormally streaked or striped flower petals are a symptom of 'flower breaking'. This problem is common in tulips, lilies and gladiolus and is caused by:
- A. Fungi
 - B. Thrips
 - C. Viruses
 - D. Aphids
42. What is a good sign that potted plants need to be repotted?
- A. new leaves are quite a bit small than older ones
 - B. new leaves are quite a bit larger than older ones
 - C. leaves are turning yellow
 - D. the plant is becoming tall and lanky
43. Most indoor foliage plants need which kind of lighting?
- A. direct sunlight
 - B. bright light
 - C. bright indirect light
 - D. medium light
44. Choosing the right heating system for a particular greenhouse depends on all but one of the following variables. Identify the one that is NOT applicable:
- A. Climate
 - B. Type of containers
 - C. Size of greenhouse
 - D. Cost and availability of heating fuel
45. The principle of total compatibility of all parts of an arrangement with each other is termed:
- A. Rhythm
 - B. Texture
 - C. Harmony
 - D. Proportion
46. A process used by growers to produce well-branched, compact plants with many flowers is called:
- A. Stunting
 - B. Compacting
 - C. Pinching
 - D. Potting
47. Cut carnations are classified into two groups
- A. floral and greenhouse
 - B. standards and miniatures
 - C. premium and discount
 - D. none of the above
48. Carbon dioxide enrichment in greenhouses is used to:
- A. decrease plant water uptake
 - B. combat insects
 - C. increase production
 - D. maintain a healthier work environment

49. Food is translocated in plants through a tissue called the:
- A. Phloem
 - B. Xylem
 - C. Cambium
 - D. Cortex
50. A poinsettia crop that is four weeks late in flowering for Christmas was very likely exposed to:
- A. a gas leak
 - B. an herbicide
 - C. too much carbon dioxide
 - D. lighting at night

Place your answers for the following questions on the Exam 2/Team portion of your scantron.

1. Excessive vegetative growth is likely to occur in geraniums:
- A. if the pH is too high
 - B. under strong sunlight
 - C. if the nitrogen level is too high
 - D. under low temperature conditions
2. The length of time from cutting propagation to flowering of African violets is about:
- A. two months
 - B. nine months
 - C. four months
 - D. six months
3. Soil structure refers to:
- A. the components of the soil
 - B. the arrangement of soil particles
 - C. both A and B above
 - D. the size of the soil particles
4. With the exception of the horizontal design, how high in relation to its width should a design be made?
- A. 2 ½ to 3 times the width
 - B. 2 to 2 ½ times the width
 - C. 1 ½ to 2 times the width
 - D. 1 to 1 ½ times the width
5. Focus in floral design refers to:
- A. Attraction of the observers eyes to a central point
 - B. A transition from dark to central point
 - C. Attraction of the observers eyes to the outline form of the arrangement
 - D. A gradation of sizes of flowers
6. A floral arrangement should be finished on all sides if it is to be placed:
- A. on a mantle
 - B. on a bookcase
 - C. against a wall
 - D. in front of a mirror

7. When designing a floral arrangement, after the container has been prepared, one should:
 - A. establish the focal point
 - B. begin filling in
 - C. drain out all the water
 - D. establish the lines

8. If a hue is diluted with gray, the resulting color is called a:
 - A. tone
 - B. shade
 - C. tint
 - D. value

9. The most commonly used heating system for commercial greenhouses is:
 - A. Electric heat panels
 - B. Steam or hot water piping
 - C. Forced hot air
 - D. Passive solar

10. A chemical disinfectant used to clean benches, pots and watering devices is:
 - A. Clorox
 - B. Malathion
 - C. Off-Shoot-O
 - D. None of the above

2018 MN FFA Floriculture CDE Exam Key

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

EXAM PART 2

1. C
2. B
3. B
4. C
5. A
6. D
7. A
8. A
9. B
10. A