

2016 U of MN FFA Winter Invite Floriculture Exam
December 15, 2016

1. Which of the following is not a disadvantage to using glass as a greenhouse covering?
 - A. High initial installation cost
 - B. Breakage
 - C. Decreased light transmission
 - D. Increased fuel cost due to non airtight structure

2. What is the best method for wiring a funnel-shaped flower such as a lily or bouvardia?
 - A. Hook
 - B. Hairpin
 - C. Straight wire
 - D. The Ronco funnel shaped flower wiring apparatus

3. The term IPM is common horticultural terminology. What does the letters IPM stand for?
 - A. Ideal Potting Media
 - B. Internal Plant Management
 - C. Integrated Pest Management
 - D. Individual Plant Maintenance

4. Improper maintenance of gas-powered greenhouse heating systems may result in damage to plants. Which gas is associated with this damage?
 - A. Methane
 - B. Ethanol
 - C. Ethylene
 - D. Methyl bromine

5. The maximum amount of moisture that is retained after surface water is drained and after the water that passes out of the soil by gravity (free water) is removed is known as
 - A. Chemically combined water
 - B. Field capacity
 - C. Hydroscopic water
 - D. Net water loss

6. Which of the following is not generally propagated by stem cuttings?
 - A. New Guinea impatiens
 - B. Hydrangea
 - C. Garden mums
 - D. Gloxinia

7. The best compromise of nutrient availability for most plants lies in the pH range of _____.
 - A. 5.0 to 5.6
 - B. 5.6 to 6.2
 - C. 6.2 to 6.8
 - D. 6.8 to 7.4

8. Some seeds require that their seed coats be broken or “wounded” before they are able to germinate. The procedure of wounding the seed coat is called _____.
 - A. Scarification
 - B. Imbibition
 - C. Stratification
 - D. Pre-germination

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9. Color is one of the basic principles of design. Complementary colors are
- A. Those to which black has been added
 - B. Those to which white has been added
 - C. Those found next to each other on the color wheel
 - D. Those found directly opposite to each other on the color wheel
10. Which of the following would decrease media pH?
- A. Hardwood bark
 - B. Sphagnum peatmoss
 - C. Perlite
 - D. Vermiculite
11. The process by which plants use oxygen to convert food to plant components and release energy is _____.
- A. Exudation
 - B. Photosynthesis
 - C. Respiration
 - D. Tropism
12. *Liatris* and *gladiolus* are two popular flowers used by florists. Which of the following statements is true about the growth of *liatris* and *gladiolus*?
- A. *Liatris* is grown from a bulb and *gladiolus* is grown from a corm
 - B. *Liatris* is grown from a corm and *gladiolus* is grown from a bulb
 - C. Both are grown from corms
 - D. Both are grown from bulbs.
13. Which of the following is not considered a bedding Plant?
- A. dahlia
 - B. alyssum
 - C. gladiolus
 - D. salvia
14. Which of the following contributes to *Botrytis* infestations in bedding plants?
- A. high humidity
 - B. lack of air movement
 - C. crowded plants
 - D. all of the above
15. Some floriculture crops absolutely require an exposure to cool temperatures for extended periods, either to initiate flower buds or to promote further flower development. The term that describes this cooling period is
- A. stratification.
 - B. photoperiod control.
 - C. Vernalization.
 - D. None of the above

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16. Which of the following is not considered a line flower in floral design?
 - A. iris
 - B. delphinium
 - C. bells of Ireland
 - D. liatris

17. Which of the following is considered a filler flower in floral design?
 - A. chrysanthemums
 - B. statice
 - C. larkspur
 - D. forsythia

18. The most common way to propagate African violet is
 - A. leaf cuttings with petioles.
 - B. seed.
 - C. grafting.
 - D. stem cuttings with a single node.

19. Poinsettias require short days to initiate flowers. The best way to assure that poinsettias receive short days is to:
 - A. shade the plants from 4 pm to 8 am with lights coming on under the shade cloth from 10 pm to 2 am.
 - B. light the plants from 10 p.m. to 2 a.m. to simulate a short day during the night.
 - C. provide short flashes of light every 15 minutes during night to prevent long durations of darkness.
 - D. none of the above.

20. A herbicide that must be applied and activated with rainfall or irrigation prior to germination of weed seeds is
 - A. a fumigant.
 - B. a mulch.
 - C. a pasteurizer.
 - D. a preemergent.

21. Which of the following is not a type of chrysanthemum?
 - A. spider
 - B. spike
 - C. decorative
 - D. incurved

22. A plant in your greenhouse is exhibiting symptoms of the entire plant being light green, but the most noticeable effect is on the older foliage. Gradually the oldest leaves lose their green color and become yellow. New leaves are small and rather stiff and the plant in general appears spindly. What is the most likely problem?
 - A. insect infestation
 - B. virus attack
 - C. nitrogen deficiency
 - D. necrosis

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23. The green color of leaves is caused by tiny particles in the food-producing cells called
 - A. guard cells.
 - B. epidermis.
 - C. chloroplasts.
 - D. starch.

24. Gibberellic acid causes
 - A. plants to grow taller.
 - B. plant stems to stretch out.
 - C. the development of a greater distance between node.
 - D. all of the above.

25. A floral design must use the basic principles of design which include
 - A. balance and harmony.
 - B. unity and rhythm.
 - C. scale and focal point.
 - D. all of the above.

26. Poinsettias produce their showy color in the leaves below the flower called the
 - A. branches.
 - B. bracts.
 - C. canes.
 - D. none of the above.

27. Which of the following flowers is the best example of a line flower
 - A. roses
 - B. baby's breath
 - C. alstroemeria
 - D. gladiolus

28. Which of the following should not be stored in a cut flower cooler kept at 36-41 degrees F.?
 - A. anemone
 - B. anthurium
 - C. carnation
 - D. roses

29. Which of the following blooming plants is more closely related to African violet?
 - A. Gerbera daisy
 - B. Azalea
 - C. Gloxinia
 - D. Dianthus

30. A white, wooly insect that resembles a ball of cotton and usually infests at the nodes of plants is the
 - A. mite.
 - B. mealy bug.
 - C. aphid.
 - D. whitefly.

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2016 U of MN FFA Winter Invite Floriculture Exam Key

1. C
2. B
3. C
4. C
5. C
6. B
7. C
8. A
9. D
10. B
11. B
12. C
13. C
14. D
15. C
16. A
17. B
18. A
19. D
20. D
21. B
22. C
23. C
24. D
25. D
26. B
27. D
28. B
29. C
30. B