

2011
State FFA Floriculture Face to Face
Career Development Event
JUDGES SHEET

You are having a dinner party for a friend who is homesick for native Hawaiian atmosphere.

Information offered to the contestant:

You are looking for a nice Hawaiian, tropical type arrangement.

Information provided when requested by the contestant:

Really likes **Anteriums**

You want something **Colorful**

Less than **\$50**

Tropical looking

Black and Pink color scheme

After they ask if there is anything else:

Extra's to go beside the plate like the picture for two.

For: Teri Free

1400 Somewhere Drive

Fargo, ND

701-555-1811

Visa – 4789-2656-4441-9001 Exp. 10/12

Deliver to Teri Free at 1400 Somewhere Drive by 3:00 pm
Monday, June 13th.

2011 State Floriculture Career Development Event

Problem Solving

You may write on this test. Mark your answers on the Grademaster. Make dark marks, erase completely to change, no stray marks.

1. _____ Your local garden center is running spring sale. All plants are currently 15% off the list price. Regular prices for Petunias are 2.59 six pack, Zinnias are 1.99 six pack, Asters are 1.49 single, and Wax begonias are 1.89 four pack.

A customer is seeking 90 petunias, 104 wax begonias, 19 asters, and 42 Zinnias. The customer is also planning to purchase a new Mantis roto tiller for 189.99. The customer will also pay a 6% sales tax to assist with the financing of the governor's new mansion.

- a. \$300.68 b. \$318.72 c. \$282.14 d. \$352.68

2. _____ As the owner of a floral shop you often accept orders requiring the use of a wire service. Your current policy is to charge a 7.00 wire fee and 10% of the order, if the order is 100 or more, and 15% if the order is under 100. You had four orders today the first going to a customer in Tacoma, WA. @79.99, the second sent to Wasilla, AK. @119.99, the third to Georgetown, GA, @59.99 and the last one sent to Indianapolis IN, @84.99. What was the revenue earned for your shop by providing this service.

- a. 45.74 b. 73.74 c. 34.50 d. 62.49

3. _____ A home owner has three flower beds into which he plans to till 2 3/4" inches of manure before planting. Two of these beds are three feet wide and 50 feet long, and the third bed is 6' by 15'. If sterilized manure sells for \$2.85 per cubic foot bag and sales tax is 6.5%, what is the total cost of the materials for completion of this phase of the project.

- a. \$166.94 b. \$2003.27 c. \$254.71 d. \$ 271.28

4. _____ The ribbon required for a decorator's bow is 1 piece 6 inches long, 1 piece 20 inches long, and one piece 30 inches long. How many yards of ribbon does a florist need to make 54 bows?

- a. 56 b. 1008 c. 112 d. 3024

5._____ You are building a new greenhouse with an end wall area of 400 square feet and a length of 104 feet. Assume that you plant to use 1/4 Horse, 30” fan that turns at 650RPM, moving a 7620 CFM. How many of these fans would be required to exchange the air in the greenhouse 30 times in one hour.
Capacity=8 cfm X area of greenhouse

- a. 1 b. 2 c. 3 d. 4

6._____ One cubic foot of potting pre-mix will fill; 88 “ Four Square” pots, or 32 “Azalea” pots, or 14 “1/2 gallon” pots. How many cubic yards of premix will be required to fill 350 “1/2 gallon” pots; 968 “Four Square” pots and 576 “Azalea” pots? (note: 1 cubic yard = 27 cubic feet)

- A. 3 cubic yards B. 2 cubic yards
C. 54 cubic yards D. 81 cubic yards

7._____ A customer wants to purchase Petunias for a 19’ diameter, half circle flowerbeds. If the planting density for Petunias is 1.6 plants per square foot, how many six-packs of Petunias will the customer need to purchase?

- A. 38 six-packs B. 30 six-packs
C. 227 six packs D. 76 six-packs

8._____ A scale infestation in the greenhouse requires that 3,200 square feet of bench space covered with plants will need to be sprayed. The spraying will be done in three separate applications, eight days apart. Three Tablespoon of ISOTOX is mixed per four gallons of water used. If one gallon of this mix will treat 400 square feet, how many ounces of ISOTOX will be needed in order to complete the entire series of applications? (note: 1 ounce = 2 Tablespoons)

- A. 9 ounces B. 6 ounces C. 3 ounces D. 18 ounces

9. _____ A $\frac{1}{3}$ cubic yard capacity vault type steamer requires 5 minutes per cubic foot of potting media to reach a pasteurizations temperature of 72 C. This temperature must then be maintained for 30 minutes in order to complete pasteurization, It will also take 10 minutes handling time. How long will it take to pasteurize two cubic yards of potting media? (Note: 1 cubic foot = $\frac{1}{27}$ cubic yard)

- A. 1.42 Hours our 1 hour and 25 Minutes
- B. 4.25 Hours or 4 hours and 15 Minutes
- C. 11.33 Hours or 11 hours 20 Minutes
- D. 8.5 Hours, or 8 Hours 30 Minutes

10. _____ A homeowner has three flowerbeds. The first is 25 feet long, the second is 17 feet long and the third is 11 feet long. In each bed they want to plant a single row of Shasta Daisies. The rows are to begin 6 inches in from one end of the bed and end 6 inches in from the other end. If the Daisies are to be spaced 8 inches apart, how many Shasta Daisies must the homeowner purchase?

- A. 71 plants
- B. 75 plants
- C. 78 plants
- D. 83 plants

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Key

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

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NORTH DAKOTA FFA FLORICUTLURE
CAREER DEVELOPMENT EVENT
WRITTEN EXAM (5 POINTS EACH)

Please record all of your answers on the computer scorecard that has been provided. You must use a No. 2 pencil on this card. Please, do not mark any answers on the exam sheets.

1. Cyocel or Chlomequat is commonly used
 - a. Height retardant
 - b. Pinching agent
 - c. Stem reinforcer
 - d. Height enhancer

2. This element is essential for strong stems, strong roots and deep flower color. A deficiency in plants shows up as weak stems and yellowing and browning leaves at their tips and edges:
 - a. Nitrogen
 - b. Potassium
 - c. Phosphorous
 - d. Iron

3. The most important environmental factor in orchid culture is:
 - a. Watering and water quality
 - b. Temperature
 - c. Fertilization
 - d. Light

4. When studying the floral decorations of the earliest cultures, one learns that the Egyptians valued _____ and _____:
 - a. Simplicity and repetition
 - b. Simplicity and variation
 - c. Ornate with gothic tone
 - d. Majestic and lavish

5. How is the size of a casket spray determined:
 - a. Budget
 - b. Season of the year
 - c. Religious affiliation
 - d. Type of casket

6. The growing point of most dicots is best described as the
 - a. Cotyledon
 - b. Vascular tissue
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7. A stem with the form and function of a leaf:
 - a. Column
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8. Upper leaves which show interveinal chlorosis probably suffer from:
- a. Sulfur deficiency
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9. According to **The Retail Florists Business**, including in the list of traditional rules to achieve good design are all but one of the following. Which one is not included?
- a. To increase depth, some of the flowers near the outer edge should be concealed.
 - b. All mechanics and flower support should be concealed.
 - c. Generous voids and negative spaces allow each flower to stand out
 - d. Even numbers should be used in arrangements when fewer than 10 flowers of one kind are being used.
10. What is a good sign that potted plants need to be repotted?
- a. The plant is becoming to tall and lanky
 - b. Leaves are turning yellow
 - c. New leaves are quite a bit smaller than older ones
 - d. New leaves are quite a bit larger than older ones
11. A typical _____ arrangement might contain a fully open flower, half opened flower and a tight bud.
- a. European
 - b. South American
 - c. Texas
 - d. Oriental
12. A gloxinia is classified as a _____.
- a. Permanent foliage potted plant
 - b. Permanent flowering potted plant
 - c. Temporary flowering potted plant
 - d. Temporary foliage potted plant
13. The Oriental cultures that developed while the Greek and Roman cultures were developing had their own floral practices. One that is still taught today is the _____ design method.
- a. Williamsburg
 - b. Hoakipoakie
 - c. Ikenobo
 - d. Ikenburg

14. A horticulture term meaning to be covered with short soft hairs:
- Variegated
 - Ratoon
 - Punctate
 - Pubescent
15. Which of the following is not a bulb crop:
- Freesia
 - Tulip
 - Hyacinth
 - Salvia
16. As roots grow, their tips are protected from coarse soil. This accomplished by a mass of cells called the _____.
- Root cap
 - Adventitious roots
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17. A more expensive decorative container into which a potted plant can be set is a:
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18. The genus and species name for carnation is:
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 - Euphorbia pulcherriria
19. Flowers are _____ percent water.
- 60
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 - 10
20. Which of the following is likely to be the most alkaline component of your greenhouse media?
- Peat moss
 - Perlite
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 - Vermiculite

21. _____ capacity is the measure of a medium's capacity to hold nutrients.
- Aeration
 - Conservatory
 - Cation exchange
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22. Odd numbers should be used in arrangements when fewer than _____ flowers of one kind are used.
- 10
 - 8
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23. Hard-shelled greenhouse pests that suck plant fluids from the stem of many common foliage plants are collectively called:
- Mealy bugs
 - Aphids
 - Thrips
 - Scale
24. Which of the following is not a wire service used in the floral industry?
- FTD
 - AFS
 - Carik
 - UPS
25. Factors which enable a floral designer to develop a dominant impact for an event include:
- Having dominant plant materials
 - Adding a focal point or center of interest
 - Both of the above
 - None of the above
26. The pierce wiring technique works best on flowers that have a _____?
- Thin calyx
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27. Color harmony achieved in an arrangement by using two or three colors found near each other on the color wheel is called:
- Supplementary
 - Monochromatic
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38. This is _____ because it is not held by the root medium.
- Root water
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 - Tunic
39. Potted plants such as a potted amaryllis can be forced into dormancy by withholding.
- Fertilizer
 - Light
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43. _____ is the unit of illumination that equals the light of one candle at a distance of one foot.
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45. The Oriental country best known for its floral art is _____.
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46. When planting hanging baskets, as a general rule of thumb, you should plant how many plants in the basket?
- One more than the size of the basket
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 - As many as you can fit in the basket
47. The best time to prepare the soil for your annual flowerbed is _____.
- In the spring
 - In the fall
 - In the winter
 - In the summer
48. A perennial bed should be mulched because it_____.
- creates aesthetic enhancement
 - helps control weeds
 - helps to keep the roots cool
 - all of the above

49. Soil that is to be planted with perennials should be well prepared because

- a. perennials are particular about soil conditions
- b. perennials grow in one location for many years
- c. all perennials require a rich soil
- d. none of the above

50. Day length (photoperiodism)

- a. stimulates plants to start growing in spring
- b. starts the hardening off process leading to dormancy
- c. stimulates flowering
- d. all of the above

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47. The best time to prepare the soil for your annual flowerbed is
- e. In the spring
 - f. In the fall**
 - g. In the winter
 - h. In the summer
48. A perennial bed should be mulched because it
- e. creates aesthetic enhancement
 - f. helps control weeds
 - g. helps to keep the roots cool
 - h. all of the above**

49. Soil that is to be planted with perennials should be well prepared because

- e. perennials are particular about soil conditions
- f. perennials grow in one location for many years**
- g. all perennials require a rich soil
- h. none of the above

50. Day length (photoperiodism)

- e. stimulates plants to start growing in spring
- f. starts the hardening off process leading to dormancy
- g. stimulates flowering
- h. all of the above**