

Floriculture Problem Solving  
2024 SMSU Ag Bowl Scholarship Invitational



1. This pest makes irregular holes in plant tissue with their rasping mouthparts. They can kill young seedlings by completely eating them.

- A. Aphids
- B. Scale
- C. Slugs
- D. Fungus gnats

2. This deficiency causes Interveinal chlorosis of young leaves. In late stages, the leaf blade may lose nearly all pigment taking on a white appearance and finally turning necrotic.

- A. Damping off
- B. Iron deficiency
- C. Nitrogen deficiency
- D. Phosphorus deficiency

3. Mildew: This disease causes mold that is white/gray in color. The flat mold grows along the top surface of the leaf. The cultural control that would help to prevent or control this disease would be:

- A. Reduce relative humidity
- B. Correct or adjust watering
- C. Increase air temperature
- D. Reduce soil temperature

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4. You have a 100-foot-long greenhouse with an end-wall area of 275 square feet. You have decided to fumigate utilizing Methiocarb PT 1700 aerosol canisters. If each canister will treat a maximum of 2,5000 cubic feet, how many canisters are required for a single treatment?

- A. 7 canisters
- B. 9 canisters
- C. 11 canisters
- D. 13 canisters

5. A local florist is offering a Mother's Day special on a vase flower arrangement. They get a special discount if the order is placed one week before Mother's Day. The florist receives 150 orders but only 125 were placed one week before Mother's Day. The normal retail price for the vase arrangement is \$40 and the early discount is 25%. How much can the flower shop expect in gross sales from the Mother's Day vase flower sale?

- A. \$4,350.00
- B. \$4,500.00
- C. \$4,750.00
- D. \$6,000.00

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6. Your FFA chapter is planning to sell one dozen red rose vases for Mother's Day to raise funds to attend the State Convention. Students want to make \$20 profit from each bouquet they sell. Using the following wholesale prices for the appropriate recipe, determine a retail price point that would allow for the fundraising project.

Vases \$ 30 for a case of 4 vases

Roses \$ 50 per bunch of 25 stems Leather Leaf Fern \$5 per bunch

Baby's Breath Filler Flower \$ 10 per bunch

Your design needs:

1 vase

12 Roses

1/2 bunch fern 1/2 bunch filler

A. \$51.50

B. \$55.00

C. \$59.00

D. \$66.50

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7. You have decided to grow a spring crop of Marigolds this year. You planted  $\frac{1}{4}$  oz. of seed and a month after planting the seeds had an 80% yield of viable seedlings. How many 24-count flats of Marigolds should you expect to produce? Seed Information for Selected Annuals (in ounces)

Alyssum	20,000
Baby's Breath	39,000
Begonia	90,000
Celosia	90,000
Coleus	6,200
Dusty Miller	52,000
Geranium	9,000
Impatiens	2,000,000
Marigolds	9,000

- A. 75
- B. 60
- C. 105
- D. 90

8. Your school has recently built 5 raised beds located beside your school greenhouse.

The school maintenance department will be delivering soil soon to fill up the beds. Each of the beds is 20 feet long, 4 feet wide, and 8 inches tall. The price of the soil is \$45 per cubic yard. How much will it cost to fill up the 5 raised beds?

Round up to the nearest whole cu. Yd.

- A. \$300
- B. \$400
- C. \$450
- D. \$500

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9. The form of the wrist corsage above is:

- A. Circular
- B. Symmetrical Triangle
- C. Asymmetrical Triangle
- D. Diagonal



1



2

10. Which statement is most correct about the arrangements shown above?

- A. Design 1 lacks harmony
- B. Design 2 has a more clearly defined focal point
- C. Design 1 has a more clearly defined focal point
- D. Design 2 has a better rhythm

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Floriculture General Knowledge Exam Key

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

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