



## Cypress Creek FFA Invitational Online Nursery / Landscape Practicum

1. Which of the following is NOT one of the principal horizons that make up the soil profile according to the information provided?
  - a. Surface soil
  - b. Subsoil
  - c. Parent material
  - d. Bedrock (R layer)
2. Which material is a sterile lightweight product that holds large quantities of air, water, and nutrients in horticultural mixes?
  - a. Peat moss
  - b. Vermiculite
  - c. Perlite
  - d. Sphagnum moss
3. The Cypress Creek ag mechanics class is putting in a brick pathway to their greenhouse. The class will be using 4in X 6in brick pavers for a 3ft X 8ft pathway. How many brick pavers will be needed to fill the area? Add 5% to your final count to compensate for broken or mis-cut pavers.
  - a. 140 brick pavers
  - b. 145 brick pavers
  - c. 152 brick pavers
  - d. 155 brick pavers
4. The greenhouse class has planned to have four annual beds placed around the greenhouse. The annual beds are 5ft X 12ft, what is the area of all the annual beds?
  - a. 40 square feet
  - b. 120 square feet
  - c. 180 square feet
  - d. 240 square feet
5. For those annual beds, a soil test shows that 0.4lbs of 5-2-2 organic fertilizer per 100ft<sup>2</sup> is recommended. How much fertilizer should be applied?
  - a. 0.24 pounds
  - b. 0.48 pounds
  - c. 0.96 pounds
  - d. 1.92 pounds

6. What are the primary factors that determine the organic matter content in soil?
  - a. Temperature and moisture conditions
  - b. Types of plants growing on the soil
  - c. Long-term management practices
  - d. All of the above
  
7. You are purchasing 205 bags of gravel for a pathway. Each bag of Gravel costs \$5.48. How much will this cost you including 8.25% tax?
  - a. \$1,000.00
  - b. \$1,100.00
  - c. \$1,215.00
  - d. \$1,300.00
  
8. What is the main purpose of the potting soil or media in container gardening?
  - a. Root aeration and drainage
  - b. Water and nutrient retention
  - c. Providing structural characteristics
  - d. All of the above
  
9. Determine the amount of 25-10-20 fertilizer needed to be applied for a 16,000 square-foot lawn if the lawn requires 1 lb of nitrogen per 1,000 square feet.
  - a. 16 pounds of 25-10-20 fertilizer
  - b. 64 pounds of 25-10-20 fertilizer
  - c. 4 pounds of 25-10-20 fertilizer
  - d. 25 pounds of 25-10-20 fertilizer
  
10. Which factor primarily determines the color of soil?
  - a. Organic matter content
  - b. Drainage conditions
  - c. Degree of oxidation or extent of weathering
  - d. Parent material