

2022 Tarleton Area Nursery Landscape Practicum

Topic: Plant Nutrition

1. Which of the following is not a Micronutrient required for plant growth?
 - a. Sulfur
 - b. Iron
 - c. Chlorine
 - d. Molybdenum

2. Which of the following is not a factor to consider when adjusting pH?
 - a. Soil texture
 - b. Organic matter
 - c. Soil temperature
 - d. Crop/plant to be grown

3. A fertilizer with an analysis of 46-0-0 would be considered _____.
 - a. complete
 - b. incomplete
 - c. insufficient
 - d. micronutrient concentrated

4. Based on a $3/32" = 1'$ scale, what is the approximate area under canopy of all the trees labeled "3" on the design?
 - a. 3.75 sq. ft.
 - b. 14.0625 sq. ft.
 - c. 44.16 sq. ft.
 - d. 132.48 sq. ft.

5. Based on a $3/16" = 1'$ scale, what is the approximate area of the lawn area labeled "A"?
 - a. 124 sq ft
 - b. 388 sq ft
 - c. 546 sq ft
 - d. None of the above

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6. If the homeowner decides to install 878 sq ft of garden space, how many cubic yards of compost would be needed to amend the soil with approximately 4" of compost?

- a. 10.73 cu yd
- b. 22.08 cu yd
- c. 78.26 cu yd
- d. 289.74 cu yd

7. The homeowner has decided to install 3 raised beds in the back yard for vegetable gardening. Each bed is 4'x 8'x 3'. Based on these dimensions, approximately how many cubic yards of garden soil will they need to buy?

- a. 288 cu yds
- b. 96.25 cu yds
- c. 10.67 cu yds
- d. None of the above

8. Using the fertilizer analysis of 25-15-10 for a 50 pound bag of fertilizer, what is the approximate weight of the phosphorus in the bag?

- a. 7.5 lbs.
- b. 15 lbs.
- c. 35 lbs.
- d. 50 lbs.

9. When working with fertilizer products coated in multiple layers of resin, which of the following is not a factor that impacts release rate?

- a. Coating thickness
- b. Coating color
- c. Temperature
- d. Soil water content

10. Determine how much 26-5-10 fertilizer needs to be applied to get 3.75 pounds of Nitrogen per 1,000 sq ft to cover a lawn area that measures 85 ft by 65 ft.

- a. 13 lbs
- b. 20.72 lbs
- c. 57.65 lbs
- d. 79.69 lbs