

National FFA Nursery/Landscape Career Development Event

Landscape Estimating 2017

This is a partial landscape plan for an exterior entertainment area for a local business in Indianapolis, IN.

Mark all answers carefully and properly on the separate answer sheet.

1. There are 2 benches shown on either side of the Emergency Egress. What is the square footage of each bench to the nearest square foot?
 - A. 6 sq. ft.
 - B. 8 sq. ft.
 - C. 12 sq. ft.
 - D. 18 sq. ft.

2. There are 7 plants identified as A surrounding the existing ventilation. The client would like to have a columnar evergreen screen for this location. Which of the following plants would work best for this?
 - A. *Acer rubrum*
 - B. *Dracaena deremensis* 'Warneckii'
 - C. *Juniperus horizontalis* cv.
 - D. *Thuja occidentalis* cv.

3. Each of the 7 plants identified as A will cost you \$22.00. You estimate it will take 15 minutes to plant each one and your labor costs \$15.00 per hour. You plan to markup plant costs 1.5 and labor 2.0. How much will you charge for the purchase and installation of these 7 plants?
 - A. \$283.50
 - B. \$364.00
 - C. \$360.50
 - D. \$270.38

4. There are 2 trees (labeled as B) in the corners of the landscaped area. These trees are identified as small deciduous trees. Which of the following plants would fit that description?
 - A. *Magnolia grandiflora* cv.
 - B. *Nyssa sylvatica*
 - C. *Amelanchier arborea*
 - D. *Dieffenbachia maculata* cv.

5. Each tree labeled as B will require a 3 cubic foot hole for planting. You estimate 1 hour per hole at \$15.00 per hour. Peat moss will be added to the soil at a rate of 1 cu. ft. per hole. Peat moss costs you \$7.50 per 3 cu. ft. You plan to markup planting materials 1.3 and your labor at 2.0. How much per tree hole will you need to charge for materials and labor?

- A. \$37.50
- B. \$33.25
- C. \$67.50
- D. \$109.75

6. There is a small area specified as annuals. Approximately how many square feet to the nearest sq. ft. will be planted as annuals? Diameter of full circle is 12 ft.

- A. 56.5 sq. ft.
- B. 78.5 sq. ft.
- C. 50 sq. ft.
- D. 25 sq. ft.

7. Which plant will work in an annual planting bed in Indianapolis, IN?

- A. *Euonymus alatus*
- B. *Salvia nemorosa* cv.
- C. *Iris x. germanica Florentina* cv.
- D. *Pelargonium x hortorum* cv.

8. There are 2 areas shown as Sculpture. Each area has plants specified as perennials planted around the base of the carving. Each perennial will cost \$6.00 and will take 10 minutes each to plant. You plan to markup the plants 1.5 and labor costing \$15.00 per hour, will have a 2.0 markup. How much will you charge for these 2 planting areas?

- A. \$224.00
- B. \$960.00
- C. \$152.00
- D. \$264.00

9. The Sculpture areas will need bark mulch to cover the new plants and go around the base of the carving. If you plan to use bark mulch 3 inches deep, how many cubic feet will you need for these 2 planting areas?

- A. 15.55 cu. ft.
- B. 36 cu. ft.
- C. 28.5 cu. ft.
- D. 9 cu. ft.

10. What is the square foot measurement of the Stage?

- A. 12 square feet
- B. 144 square feet
- C. 113 square feet
- D. 3.33 square feet

11. There are small shrubs identified as item C in the drawing. Each shrub will cost you \$12.00 and take half an hour to plant. You plan to mark up the plants 1.5 times and will charge \$30.00 per hour for labor. In order to guarantee these plants you will charge 10% of the retail cost of the plants. How much will your bid include for these shrubs including purchase, installation and guarantee?

- A. \$627.00
- B. \$661.20
- C. \$645.00
- D. \$912.00

12. There are 5 sets of tables and chairs to be included in your bid price. Each set will cost you \$550.00 plus 15% shipping. There is some assembly required which you estimate will take 2 men an hour each per set. Additionally, there are umbrella shades for each set, included in the cost and these will take an additional 15 minutes per set to install. You plan to mark up the total cost of the tables and chairs, including shipping 1.5 times. Your labor rate is \$30.00 per hour. How much will you include in your bid for the 5 sets of tables?

- A. \$4525.75
- B. \$6043.75
- C. \$5407.25
- D. \$5081.25

13. The area labeled as E is to be filled with pea gravel to a depth of 8 inches. How many cubic feet of pea gravel will be needed?
- A. 40.20 cubic feet
 - B. 72.50 cubic feet
 - C. 54.38 cubic feet
 - D. 45.56 cubic feet
14. The shrub labeled as C is specified as an evergreen. Which of the following plants will work?
- A. *Taxus* spp.
 - B. *Buxus microphylla* cv.
 - C. *Juniperus chinensis* cv.
 - D. All of the above
15. The area labeled as a lamp is set on a base of concrete that is augered to 18" in diameter and 3' deep. How much concrete will be needed to set the base of the lamp.
- A. 1.76 cubic feet
 - B. 5.29 cubic feet
 - C. 9.32 cubic feet
 - D. 7.42 cubic feet
16. What size grate will be required for the area labeled as existing ventilation?
- A. 6' x 12'
 - B. 8' x 8'
 - C. 5' x 11'
 - D. 12' x 18'
17. What is the linear length of the existing 8" concrete curb on the plan?
- A. 76 linear feet
 - B. 73 linear feet
 - C. 28 linear feet
 - D. 18 linear feet

18. The steps going up to the stage are each 6" high. What is the finished height of the stage above grade?

- A. 18"
- B. 24"
- C. 3'
- D. 6"

19. Much of this plan is covered by pavers. What are the three most typical elements used for paved patio areas?

- A. Compacted sub base, sand, pavers
- B. Landscape fabric, plywood base, pavers
- C. Concrete, rubber liner, pavers
- D. None of the above

20. The landscaped area, including the annual planting bed, inside the concrete curb will require shredded bark mulch to a depth of 3". Remember to deduct for the vent grate you found in #16. How many cubic feet will you need to plan for this area?

- A. 236 cubic feet
- B. 1234 cubic feet
- C. 400 cubic feet
- D. 296.2 cubic feet