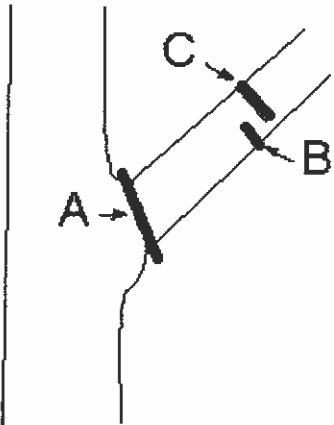


2016 STATE LANDSCAPE/NURSERY PRUNING PRACTICUM

Please bubble in your answers on the **assessment and solution** section of the scantron.
Each question is worth 5 points.

1. When removing a large branch, several cuts may need to be made to remove the branch safely. Select the correct order of cuts to make to remove this branch.

- A. A, B, C
- B. A, C, B
- C. B, A, C
- D. B, C, A



2. Which of the diagrams below is the correct shape to prune a formal hedge?



A



B



C

3. Select the proper cutting technique from the pictures below.

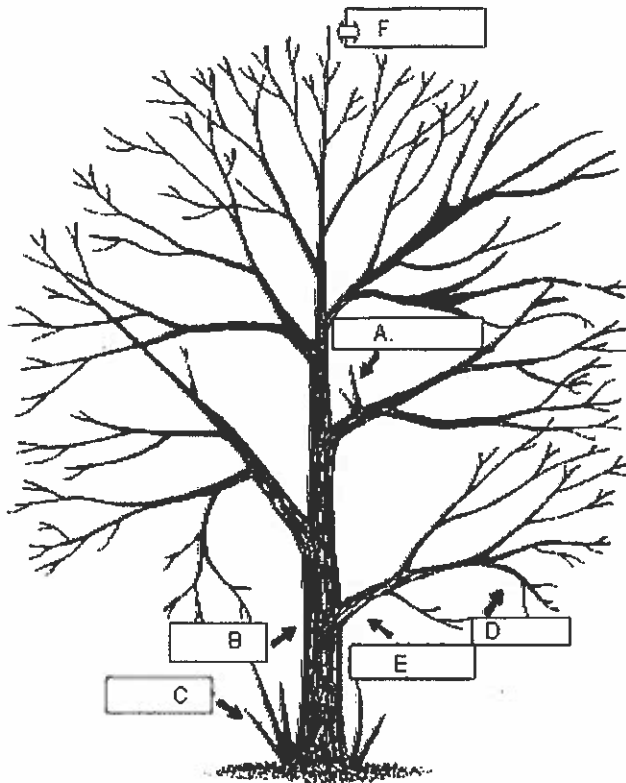


A

B

C

D



Typical above-ground tree framework

4. Identify the branches at "A":

- A) lateral branch
- B) scaffold
- C) sucker
- D) water sprouts

5. Identify the branch at "C":

- A) lateral branch
- B) scaffold
- C) sucker
- D) water sprouts

6. Identify the branch at "D":

- A) lateral branch
- B) scaffold
- C) sucker
- D) water sprouts

7. Identify the branch at "E":

- A) lateral branch
- B) scaffold
- C) sucker
- D) water sprouts

8. The best time to prune lilacs is:

- A) soon after flowering
- B) when they are dormant
- C) soon after fruiting
- D) any time is fine

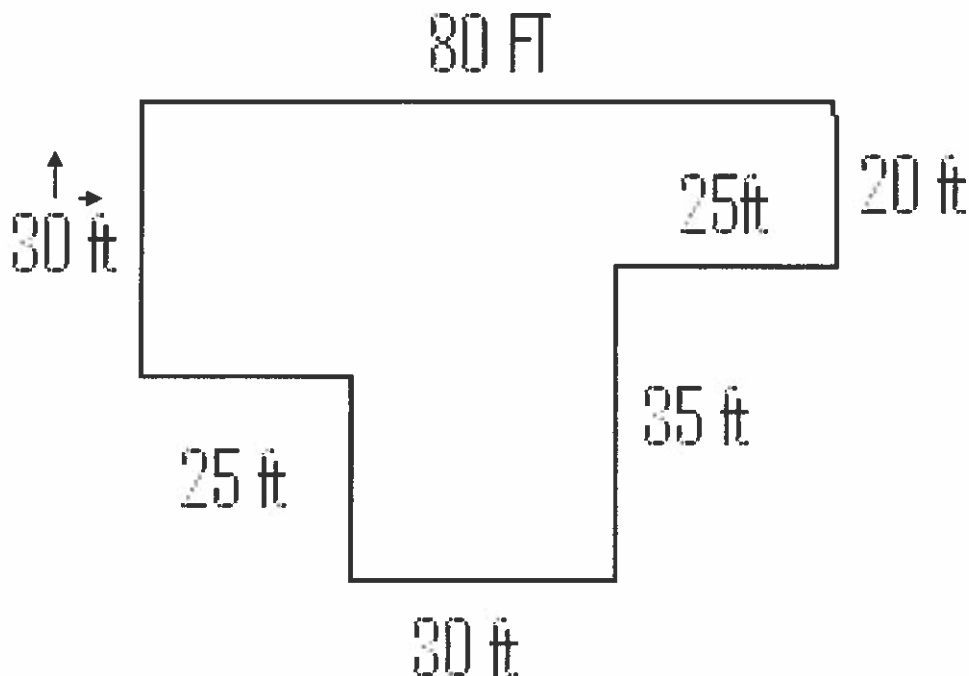
9. The best time to prune summer blooming shrubs is:

- A) right before blooming
- B) when they are blooming
- C) in the late spring
- D) in the late fall

10. The best time to prune oak trees susceptible to Oak Wilt is

- A) late spring
- B) it does not matter
- C) winter when they are dormant
- D) summer when they are actively growing

NOTE: THIS DRAWING IS NOT TO SCALE. USE GIVEN DIMENSIONS.



11. Calculate the number of square feet in the diagram above.
 - A) 4,400 sq. ft.
 - B) 2,460 sq. ft.
 - C) 1,880 sq. ft.
 - D) 1,460 sq. ft.

12. How many pounds of a fertilizer containing 25% Nitrogen should be applied to a 2,400 sq. ft. lawn to apply $\frac{1}{4}$ pound of Nitrogen per 1000 square feet?
 - A) 1.8 pounds
 - B) 2.0 pounds
 - C) 2.2 pounds
 - D) 2.4 pounds

13. Calculate the pounds of seed required for the following situation: The area to be seeded is 3,400 square feet with 4.5 pounds of seed required per 1000 square feet.
 - A) 12.2 pounds
 - B) 15.3 pounds
 - C) 18.4 pounds
 - D) 21.3 pounds

14. One seed mix available contains 25% Kentucky Bluegrass, 35% Creeping Red Fescue, 30% Bentgrass, and 10% Annual Ryegrass. What percentage of this seed mix is Perennial Grasses?
- A) 10%
 - B) 40%
 - C) 60%
 - D) 90%
15. If a homeowner applies 65 pounds of this mix to a yard, how many pounds of Kentucky Bluegrass will be applied?
- A) 16.25 pounds
 - B) 22.75 pounds
 - C) 27.00 pounds
 - D) 27.75 pounds
16. Regarding the mix in question 14, which of the four grasses would be best to use in the shade?
- A) Kentucky Bluegrass
 - B) Creeping Red Fescue
 - C) Bentgrass
 - D) Annual Ryegrass
17. To help establish roots of new grass seedlings, which of the following nutrients should be incorporated into the soil before seeding a lawn?
- A) Nitrogen
 - B) Phosphorous
 - C) Potassium
 - D) Calcium
18. Which of the following herbicides would be best to apply to kill off existing vegetation before seeding a new lawn?
- A) A non-selective post emergent herbicide such as Round-Up.
 - B) A pre-emergent herbicide such as Preen.
 - C) A systemic herbicide with residual control.
 - D) A post emergent grass herbicide with residual control.
19. Which of the following grasses is not recommended for lawns in Minnesota?
- A) Bluegrass
 - B) Fescue
 - C) Perennial Ryegrass
 - D) Zoysia Grass
20. Which of the following grasses would be best for use on a golf green in Minnesota?
- A) Annual Bluegrass
 - B) Bentgrass
 - C) Bermuda grass
 - D) Kentucky Bluegrass

2016 STATE LANDSCAPE/NURSERY PRUNING PRACTICUM KEY

1. D
2. A
3. A
4. D
5. C
6. A
7. B
8. A
9. D
- ~~10. C~~ Establish Lawn by Seeding
11. D
12. D
13. B
14. D
15. A
16. B
17. B
18. A
19. D
20. B