

## Area IV Envirothon 2019 Forestry

Justin Law, ODNR Service Forester

1. Which term best describes the leaf edge of a Swamp White Oak?
  - a. Serrate
  - b. Crenate
  - c. Dentate
  - d. Quercus
2. Maple, Ash, Dogwood all have what type of leaf arrangement?
  - a. Opposite
  - b. Scribner
  - c. Whorled
  - d. Pointed
3. What is the most common “rule” used in Ohio that has been developed to estimate board-foot tree volume?
  - a. Pinchot
  - b. Biltmore
  - c. Doyle
  - d. International
4. The board foot is defined as a piece of wood measuring?
  - a. 12” x 12” x 1”
  - b. 14” x 14” x 2”
  - c. 1’ x 1’ x 1’
  - d. 1” x 1”x 1”
5. In Ohio Forestry, what is the length in feet of one log?
  - a. 10 ft
  - b. 16 ft
  - c. 8 ft
  - d. 12 ft
6. Determine the standing board foot volume of a tree measuring 18” DBH, 1.5 logs using the Doyle Rule? (Hint: Reference the Biltmore Stick)
  - a. 60 Board Feet
  - b. 130 Board Feet
  - c. 360 Board Feet
  - d. 1000 Board Feet

7. Can you identify this invasive?
  - a. Tamarisk
  - b. Bush Honeysuckle
  - c. Arborvitae
  - d. Autumn Olive
  
8. This forestry tool is commonly used to measure DBH. Please identify.
  - a. Abney Level
  - b. Jacob's Staff
  - c. Prism
  - d. D-tape
  
9. In Ohio, what causes most wildfires?
  - a. Lightning
  - b. Cigarettes
  - c. Debris burning
  - d. Fireworks
  
10. What are the three legs of the Wildfire Behavior Triangle?
  - a. Heat, Ignition, and Oxygen
  - b. Smoke, Flame, and Intensity
  - c. Plume, Scorch, and Melting point
  - d. Fuel, weather, and Topography
  
11. Which statement **best** describes Silviculture?
  - a. The art and science of growing trees
  - b. The genetics of tree form
  - c. The science of seeds
  - d. The laboratory production of angiosperms
  
12. Which of the following are considered secondary forest products manufacturing?
  - a. Wood furniture industries
  - b. Logging contractors
  - c. Shopping malls
  - d. Sawmills
  
13. What is the most common forest type found in Ohio?
  - a. Maple/Beech/Birch
  - b. White/Red Pine
  - c. Spruce/Fir
  - d. Oak/Hickory

14. Which of the control methods is usually not a completely effective method of controlling medium to large bush honeysuckle shrubs?
- Basal Spraying
  - Cut Stump Herbicide Treatment
  - Mechanical Control
  - Foliar Spraying
15. Saw timber is trees meeting the minimum size requirements for producing lumber. What is generally the minimum sawtimber size measured by foresters for stumpage sales in Ohio?
- 2" DBH
  - 24" DBH
  - 14" DBH
  - 30" DBH
16. Could the trail that you walked on to this station be identified by a forester pre-harvest to be used as a primary skid trail for timber harvesting? Choose the Best Answer?
- No, Forester's do not identify skid trails
  - No, Forest trails are only used for recreation
  - Yes, existing trails are often improved upon to skid logs
  - Yes, but only with written approval from the Chief
17. Based on this woodland site, what is a sound forestry practice that could be used to enhance wildlife habitat?
- Constructing brush piles
  - Planting honeysuckle
  - High Grading
  - Grazing Livestock
18. What is a tool used by Foresters to improve the overall health and condition of the forest?
- Invasive species control
  - Timber Harvesting
  - Crop Tree Release
  - All the above
19. What is a **NATIVE** invasive plant found in this woodland that can limit the growth of a tree?
- Grapevine
  - Bush honeysuckle
  - Winter creeper
  - Oriental Bittersweet

20. This shade tolerant tree is also referred to in the timber industry as hard maple?
- Silver maple
  - Red maple
  - Sugar maple
  - All the above
21. What has the use of Geographic Information Systems in Forestry improved?
- Managing large amounts of data
  - Forest Inventory
  - Landscape scale management
  - All of the above
22. Using the D-tape, what is the DBH of this tree to the nearest two-inch size class?
- 8
  - 9
  - 10
  - 12
23. Which of these species is shade-intolerant?
- Basswood
  - American Beech
  - Sugar Maple
  - Yellow-poplar
24. Please identify this tree species?
- Black Walnut
  - Ash
  - Yellow-Poplar
  - Sugar Maple
25. What is the forest volume in Ohio?
- 96.3% hardwoods and 3.7% conifers
  - 75% hardwoods and 25% conifers
  - 50% hardwoods and 50% conifers
  - None of the above