

2008 Envirothon
Area 5 Soil and Water Conservation Districts
Shawnee State Park
Forestry Ecostation

Please use a pencil to complete your answer sheet
DO NOT WRITE ON THIS TEST

1. What species is the tree marked "A"?
 - A. Sweetgum
 - B. Blackgum
 - C. Black Oak
 - D. Dogwood

2. What species is the tree marked "B"?
 - A. Northern Red Oak
 - B. White Oak
 - C. Shagbark Hickory
 - D. Sweetgum

3. What species is the tree marked "C"?
 - A. Northern Red Oak
 - B. Bitternut Hickory
 - C. Scarlet Oak
 - D. Black Walnut

4. The fruit from tree "C" is best described as:
 - A. Berry
 - B. Acorn
 - C. Drupe
 - D. Samara

5. The wood from tree "B" is primarily used for:
 - A. Appearance grade furniture
 - B. Structural lumber
 - C. Telephone poles
 - D. Pressure treated lumber

6. According to the Doyle Log Rule, Tree "C" has approximately how much board footage.
- A. 340
 - B. 2320
 - C. 490
 - D. 430
7. How many 16 foot logs with minimum 10" inside diameter could be sawn from Tree "C"?
- A. 1
 - B. 2
 - C. 3
 - D. 4

8. Which of these species is shade intolerant?
- A. Yellow Poplar
 - B. Black Oak
 - C. Red Maple
 - D. Eastern Hemlock
9. Which is **NOT** an advantage of a shelterwood cut?
- A. Less invasion of undesirable vegetation.
 - B. May be more effective with heavy-seeded species such as oaks.
 - C. Slash disposal is less of a problem than with clearcutting.
 - D. Requires a market for small and low-quality trees.
10. What cutting method removes all stems >2" dbh on an area >5 acres in area?
- A. Group Selection
 - B. Clearcutting
 - C. Shelterwood
 - D. Select Cut
11. Using the Soil Survey of Scioto County, determine which of the following groups of trees is best suited for planting based on the Shelocta soil occurring on a B slope (SbB).
- A. Black locust, American Sycamore, Pin Oak
 - B. Yellow Poplar, Eastern White Pine, Black Cherry
 - C. Eastern White Pine, Yellow Poplar, Green Ash
 - D. Black Oak, White Oak, Black Walnut
12. Typically, forest soils have more organic matter than other types of soils. Aspect plays a major role in organic matter accumulation. Which of the following aspect positions in the forest would yield the **Least** amount of organic matter?
- A. North and west facing slopes
 - B. North and east facing slopes
 - C. South and west facing slopes
 - D. South and east facing slopes
13. All of the following are log quality "defects" **Except**?

- A. Crook
 - B. Sweep
 - C. Shake
 - D. Veneer
14. The zone located along a stream that is covered by trees and plants is identified as the:
- A. Water Shrub Zone
 - B. Swamp Zone
 - C. Riparian Zone
 - D. Habitat Zone
15. A potential environmental concern for logging this area might be:
- A. Seasonal wet soils creating rutting problems.
 - B. Upset neighbors
 - C. Steep slopes
 - D. Too many culverts required
16. The leaf margin for tree "A" is best described as:
- A. Smooth
 - B. Serrate
 - C. Sharp
 - D. Pointy
17. The northern hardwood – hemlock forest type is represented by the beech – sugar maple cover type and includes other species such as red maple, white oak, yellow–poplar, black cherry and black walnut. The location of soils best suited for this forest type generally occurs where?
- A. Upper parts of slopes and on ridges, mainly facing north and east.
 - B. Lower parts of slopes and in coves, mainly facing north and east.
 - C. Upper parts of slopes and on ridges, mainly facing south and west.
 - D. Lower parts of slopes and in coves, mainly facing south and west.
18. Intermediate treatments, including the removal of vines and cull trees, that leave a stand of good quality trees of the desired species is a:
- A. Timber Stand Improvement

- B. Shelterwood Cut
 - C. Sanitation Cut
 - D. Treatment Cut
19. Which log rule is most commonly used in Ohio?
- A. Doyle
 - B. Scribner
 - C. International $\frac{1}{4}$ "
 - D. Cubic Meters
20. Basal area is defined by:
- A. A cross-selection representation of all the trees in a given area at breast height
 - B. The diameter of the tree at 4.5 feet from the root collar
 - C. The area of a tree in cubic feet
 - D. The height of a tree
21. Which of the following harvesting methods does **Not** result in an even-aged stand?
- A. Seed-Tree
 - B. Clearcutting
 - C. Shelterwood
 - D. Group Selection
22. Which species is a shade tolerant species?
- A. American Basswood
 - B. White Oak
 - C. Shortleaf Pine
 - D. Bigtooth Aspen

23. Why is movement of firewood from quarantined counties prohibited in Ohio?
- A. Competition between vendors.
 - B. To prevent the spread of emerald ash borers.
 - C. To prevent cross breeding.
 - D. Some counties have a tax on firewood.
24. How could imported plants used for landscaping adversely impact forest ecosystems?
- A. They may become invasive and compete for space with native plants
 - B. Birds stay in people's yards instead of inhabiting the forest
 - C. They use more oxygen than native species
 - D. Poison ivy might spread
25. Which is **Not** a method of lessening the visual impact of clearcuts?
- A. Leaving borders of uncut trees as visual buffers
 - B. Planning harvest areas that conform to the natural topography
 - C. Designing irregular-shaped areas in a range of sizes
 - D. Cutting along streams or roadways