

## **2022 OHIO AREA V ENVIROTHON QUESTIONS – FORESTRY**

- 1.) Non-native, Invasive plants restrict, and in extreme cases, prohibit the growth and development of Native Trees that provide a valuable Lumber Product and also serve as a food source and habitat for a variety of wildlife species. Which of the following is not a non-native, invasive plant?
  - a.) Kudzu
  - b.) Bush Honeysuckle
  - c.) Tree-of-Heaven
  - d.) Spicebush
  
- 2.) Non-native, Invasive insects can wreak havoc across the forests across the country. What are two insects that are currently causing tree mortality in Ohio?
  - a.) Carpenter ants and lady bugs
  - b.) American Burying Beetles and yellow jackets
  - c.) Asian Longhorned Beetles and Emerald Ash Borers
  - d.) Fruit Flies and Emerald Ash Borers
  
- 3.) What is a common term used for a water diversion structure used to fortify skid trails when a timber harvest is complete?
  - a.) Water Mound
  - b.) Soil Dam
  - c.) Water Bar
  - d.) Flow Stopper
  
- 4.) A standing dead tree is referred to as what?
  - a.) Snag
  - b.) Bolt
  - c.) Shear
  - d.) Stag
  
- 5.) What is a treatment done to a forest to reduce the density of trees to improve growth of desirable trees, or to recover from potential mortality?
  - a.) High-Grade cutting
  - b.) Seed-Tree cutting
  - c.) Thinning
  - d.) Coppice

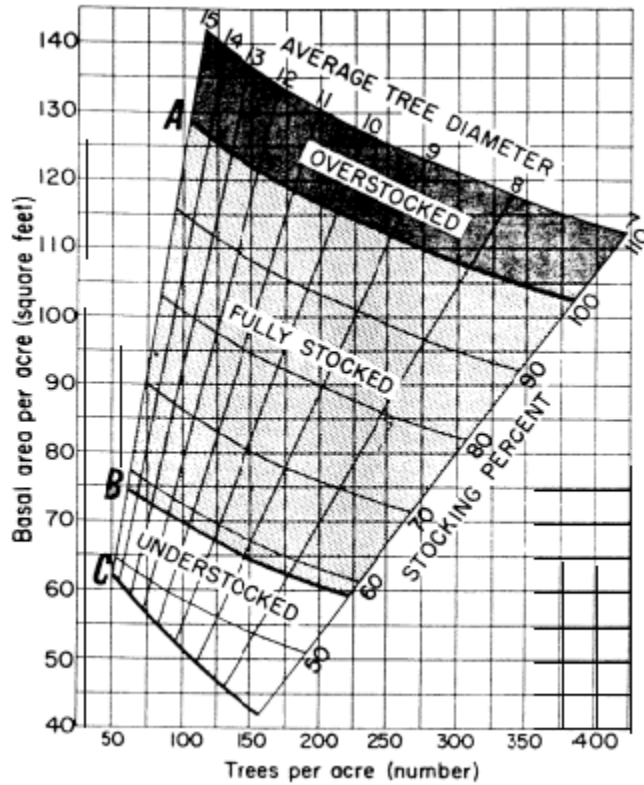
- 6.) This is the storage of carbon dioxide in vegetation such as grass lands and forest.
- a.) Carbonized Foliage
  - b.) Carbon Sequestration
  - c.) Floral Carbonization
  - d.) Greenhouse Effect

- 7.) Identify the type of silvicultural harvest below



- a.) Single Tree Selection
  - b.) Shelterwood
  - c.) Group Tree Selection
  - d.) Clearcut
- 8.) What term refers to a stand of trees that are the same age?
- a.) Single-Aged
  - b.) All-Aged
  - c.) Distinct-Aged
  - d.) Even-Aged
- 9.) Forestry, like many other professions, has a standard method of measuring trees from 4.5- feet above the ground; what does the acronym “DBH” mean?
- a.) Double By Half
  - b.) Dibble Bar Height
  - c.) Diameter at Breast Height
  - d.) Diameter at Bark Height

10.) Referencing the chart below, describe the stocking (%) of a forest stand that is 70 square feet per acre and consisting of 200 trees per acre.



- a.) 70%
- b.) 65%
- c.) 60%
- d.) 75%

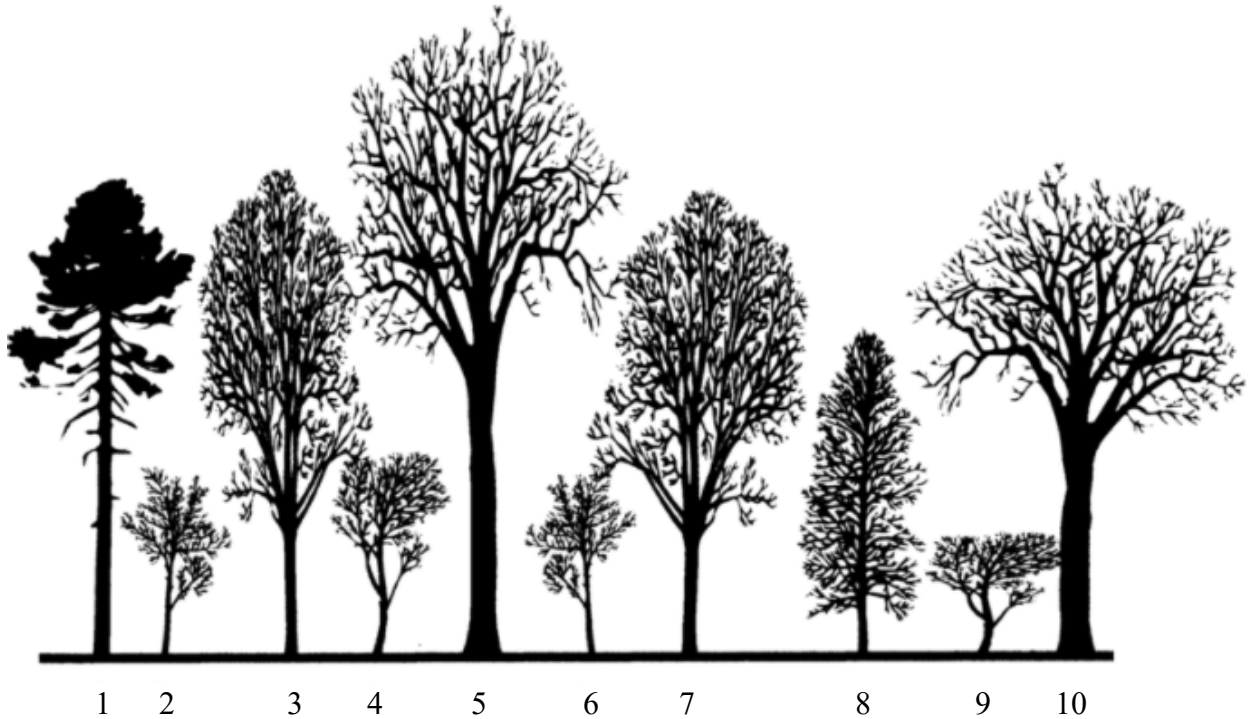
11.) What two types of measurements are taken with a Biltmore Stick?

- a.) Tree Diameter and Merchantable Height
- b.) Root Diameter and Tree Growth
- c.) Tree Canopy Height and Log Grade
- d.) Tree Canopy Width and Tree Circumference

12.) What is the cross-sectional area of a single stem, including the bark, measured at breast height (4.5 ft above the ground)?

- a.) Tree density
- b.) Basal Density
- c.) Basal Area
- d.) Tree Base Measurement

13.) Using the following illustration, what crown class is tree #4.



- a.) Dominant \_\_\_\_\_
- b.) Codominant \_\_\_\_\_
- c.) Intermediate \_\_\_\_\_
- d.) Suppressed \_\_\_\_\_

14.) What is the term used to describe the effort used to reduce soil erosion from the extraction of logs in a timber harvest?

- a.) Log Mitigation Practices
- b.) Timber Retrieval Practices
- c.) Best Management Practices
- d.) Mechanized Management Practices

15.) What two types of measurement are taken with a clinometer?

- a.) Tree lean and log grade
- b.) Tree height and slope
- c.) Tree diameter and log grade
- d.) Tree canopy cover and fiber quality

- 16.) Which of the following log rules is most used to calculate tree volume in Ohio?
- a.) Doyle Rule
  - b.) Scribner Rule
  - c.) Standard Rule
  - d.) International 1/4" Rule
- 17.) Identify the Tree Species Labeled "#1".
- a.) Yellow Poplar
  - b.) Black Walnut
  - c.) Cottonwood
  - d.) Sycamore
- 18.) What is the DBH (to the nearest inch) of this tree labeled "1"?
- a.) 20"
  - b.) 18"
  - c.) 22"
  - d.) 17"
- 19.) Approximately how many merchantable logs are in the tree labeled "#1"?
- a.) 4 logs
  - b.) 2.5 logs
  - c.) 2 logs
  - d.) 3 logs
- 20.) Given the two previous answers, how many Board Feet (Doyle Scale) are in the tree labeled "#1)?"
- a.) 297
  - b.) 346
  - c.) 383
  - d.) 248
- 21.) What tree species is the tree labeled "#2"?
- a.) American Elm
  - b.) Hackberry
  - c.) Sugar Maple
  - d.) White Oak

22.) What is the DBH (to the nearest inch) of this tree labeled “2”?

- a.) 11”
- b.) 15”
- c.) 10”
- d.) 13”

23.) Identify the Tree Species Labeled “#3”.

- a.) Blackgum
- b.) Shagbark Hickory
- c.) Red Maple
- d.) White Oak

24.) What is the DBH (to the nearest inch) of this tree labeled “3”?

- a.) 6”
- b.) 4”
- c.) 2”
- d.) 7”

25.) What tree species is the tree labeled “#4”?

- a.) Beech
- b.) Red Maple
- c.) Bitternut Hickory
- d.) Hackberry