



2022 STATE ENVIROTHON Forestry Test

INSTRUCTIONS: Write your answers on the Respondent Sheet.

MULTIPLE CHOICE: Select the best possible answer from those provided.

1. Spongy moth, previously known as Gypsy Moth, prefers which tree genera?
 - a. Maple, *Acer*
 - b. Oak, *Quercus*
 - c. Elm, *Ulmus*
 - d. Ash, *Fraxinus*
2. If a professional forester references TSI, she would most likely be referring to which of the following?
 - a. Tall, Straight, Injury-free Trees
 - b. Totally Shade Intolerant
 - c. Timber Stand Improvement
 - d. Tax Savings Incentive
3. How long is a chain in feet?
 - a. 66 feet
 - b. 100 feet
 - c. 1,000 feet
 - d. 5,280 feet
4. Which genus of trees support the most lifeforms in North America?
 - a. Oak, *Quercus*
 - b. Maple, *Acer*
 - c. Elm, *Ulmus*
 - d. Ash, *Fraxinus*
5. A properly designed riparian buffer strip _____.
 - a. Has a 20-25 foot strip of warm season grasses closest to the stream
 - b. Should require no maintenance following planting
 - c. Is composed of three zones of vegetation with trees closest to the stream
 - d. Will reduce streambank erosion but have little effect on water quality

6. The seed structure of the maple species is _____.
 - a. Acorn
 - b. Nut
 - c. Samura
 - d. Seed pod
 - e. Cone

7. What is the biggest cause of global deforestation?
 - a. Climate change
 - b. Building cities
 - c. Agricultural expansion
 - d. Forest fires and pest

8. When pruning trees for health, one must remove _____.
 - a. Rubbing branches
 - b. Ugly branches
 - c. Branches that point down
 - d. Branches with bad branching unions
 - e. Both A & D
 - f. Both B & C

9. Which species are pollinated by the insects?
 - a. Norway Spruce, *Picea abies*
 - b. Eastern White Pine, *Pinus strobus*
 - c. Eastern Cottonwood, *Populus deltoids*
 - d. Apples, *Malus domestica*

10. Which of these is NOT considered an invasive / introduced species that may cause a negative impact on the diversity of Iowa forests?
 - a. Barberry
 - b. Norway Maple
 - c. Elderberry
 - d. Honeysuckle
 - e. Siberian Elm

11. When planning a prescribed fire, one must take which of the following into account?
 - a. Relative humidity
 - b. Haines index
 - c. Wind speed
 - d. Only A & C
 - e. All of the above

12. The most highly valued tree in the Midwest is _____.
 - a. White Oak
 - b. Red Oak
 - c. Black Cherry
 - d. Black Walnut

13. What timber harvest method involves leaving trees behind to protect younger age classes?
- a. Shelterwood
 - b. Clearcutting
 - c. Group selection
 - d. Single tree selection
 - e. Both a and d
14. Which of the following is NOT an advantage of having trees in the landscape?
- a. Tree roots reduce erosion by holding the soil in place.
 - b. Trees increase soil water absorption, thus reducing flooding.
 - c. Tree litter and leaves increase organic matter content of water in ponds and rivers.
 - d. Forests help filter pollutants before they reach bodies of water.
 - e. Forests help cool the water passing through them.
15. Which trees are commonly found in bottomland areas of Iowa?
- a. Green Ash, Boxelder, and Cottonwood
 - b. Bur, White, and Red Oak
 - c. Black Walnut and Shagbark Hickory
 - d. Basswood and Black Cherry

**REMAINING QUESTIONS:
ANSWER AT THE LAB STATION**

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