

**2022 4-H/FFA Forestry CDE
State Junior Exam**

Select the best answer from the choices provided. Bubble the answer to the corresponding question on the Scantron answer sheet, General Knowledge Exam section. Return this test booklet to the room monitor when finished.

1. An area of land that is drained by a body of water is known as a what?
 - a. man-made pond
 - b. water hole
 - c. watershed
 - d. none of the above

2. Flash flooding is not a problem in dry mountainous areas.
 - a. True
 - b. False

3. Which type of product leads to an injury in hardwood seedlings that is more common as the product is more widely used in the agriculture industry?
 - a. Glyphosate
 - b. Glufosinate
 - c. Diquat
 - d. None of the above

4. Frost damage most often appears as what on new leaves or shoots?
 - a. dried or blackened
 - b. dried or yellowed
 - c. wet or blackened
 - d. wet or yellowed

5. Which type of tree is particularly susceptible to frost injury because they often grow in low areas where cold air drains from surrounding hillsides?
 - a. oak
 - b. maple
 - c. walnut
 - d. ash

6. When avoiding dieback, when should young trees be given additional water?
 - a. late spring
 - b. late summer
 - c. later autumn
 - d. late winter

7. Trees exposed to heavy loads of ice shouldn't be inspected for limb breakage and splitting.
 - a. True
 - b. False

8. When is gypsum applied?
 - a. before the trees are planted
 - b. after trees are planted
 - c. two years after a tree is planted
 - d. whenever

9. Which of the following are side effects of a tree that has damage from flooding?
 - a. appearing stunted
 - b. new leaves seem smaller than normal
 - c. shoots may appear wilted and drought-stressed
 - d. all of the above

10. Which combination can lessen the risk of damage to a tree when it comes to flooding?
 - a. warmer temperatures and still flood water
 - b. hot temperatures and flowing flood water
 - c. cooler temperatures and flowing flood water
 - d. cooler temperatures and still flood water

11. A side effect of tree stuck by lightning would be
 - a. deep gashes running the width of the bole
 - b. burn marks
 - c. the bark has exploded all the way around the trunk
 - d. all of the above

12. Wind shake can be deep in a tree and hidden until it is revealed at harvest.
 - a. True
 - b. False

13. The following symptoms describe what type of injury: stripped bark, broken limbs, and forking?
 - a. flooding
 - b. tractor blight
 - c. tree-fall injury
 - d. dieback

14. All of the following factors have an affect the severity of a drought EXCEPT:
 - a. leaf area
 - b. wind speed
 - c. tree-fall incidents
 - d. humidity

15. Sloped fields and a crusted soil surface make watering of trees easy.
 - a. True
 - b. False

16. Drought-stressed trees often take how long to recover after watering?
- Minutes
 - Hours
 - Days
 - Weeks
17. Fertilization doesn't stimulate weed growth.
- True
 - False
18. When transporting seedlings, you must protect them for what so they don't dry out?
- sun and water
 - sun and wind
 - wind and water
 - wind and shade
19. Which of the following terms helps determine where and how well trees grow?
- topography
 - geography
 - thermograohy
 - biogeography
20. Sub-climax forests are very resistant to widespread change.
- True
 - False