2022 4-H/FFA Forestry CDE State Senior 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 apperas 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 symproms 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. humidy
- 15. Sloped fields and a crusted soil surface make watering of trees easy.
 - a. True
 - b. False

16. Drough	nt-stressed trees often take how long to recover after watering?			
a.	Minutes			
b.	Hours			
C.	Days			
d.	Weeks			
17. Fertilization doesn't stimulate weed growth.				
a.	True			
b.	False			
18. When	18. When transporting seedlings, you must protect them for what so they don't dry out?			
a.	sun and water			
b.	sun and wind			
	wind and water			
d.	wind and shade			
19. Which of the following terms helps determine where and how well trees grow?				
	topography			
	geography			
	thermography			
d.	biogeography			
20. Sub-climax forests are very resistant to widespread change.				
	True			
b.	False			
21. Pesticides should not be applied over or withinof streams, ponds, lakes, etc.				
a.	25 feet			
	30 feet			
	35 feet			
d.	40 feet			
22 requires you to estimate expenses and revenues many years into the future				
a.	UNICAP			
b.	NRCS			
C.	DCFA			
d.	QTP			
23. Trees are planted for many reasons EXCEPT:				
a.	landscaping			
b.	soil and water conservation			
C.	wildlife habitat			
d.	recreational purposes			
24. Trees p	24. Trees planted for commercial timber production are subject to uniform capitalization rules.			
a.	True			
b.	False			

25. The limit for total expensi	ng per tax payer per year is:
a. \$15,000	
b. \$5,000	
c. \$100,000	
d. \$10,000	
	nd is optimal for most fine hardwood species.
a. 5.4 and lower	
b. 5.5 and 6.4	
c. 6.5 and 7.2	
d. 7.2 and higher	
27 can be used to lim	it damage caused by large animals.
b. Fencing	
c. Cages	
d. Tree guard	
28. All hardwoods are:	
a. get severly damag	ged by pests and diseases
b. able to resist disea	ases and recover from pests
c. susceptible to the	invasion of new and exotic pests and diseases
d. susceptible to only	y a few pests and diseases depending on the season
29 Mowing a nath through th	ne plantation along the route that deer are likely to travel will:
	er to not even go down the path .
_	erested in whats on the other side.
	ay because the path is unusual.
	·
a. encourage the dec	er to pass through without stopping to eat.
30. Low rainfall, high soil pH, a	and organic matter can affect how young trees respond to herbicides
a. True	
b. False	
31. Trees with salt burn often	appear to have symptoms of deficiency.
a. Nitrogen	
b. Potassium	
c. Iron	
d. Oxygen	
u. Oxygen	
	hat is the maximum number of cuttings allowed?
a. 1	
b. 2	
c. 3	
d. no limit	

33	a. b. c.	a has over native tree species. 60 67 80 100			
34	34. Which is NOT something to include in a tree planting plan?				
	a.	your objectives			
	b.	labor			
	c.	species to be planted			
	d.	recreational activities			
3!	35. Pruning is essential to the health of trees				
	a.	True			
	b.	False			
36	36. What can be done to encourage vertical growth in planted trees?				
	a.	Close Spacing			
		Wide Spacing			
	C.	Deep planting			
	d.	Shallow planting			
37	7. What i	s a "Clearcut"?			
	a.	A tree that has been cut all the way through			
	b.	An area of forest where most trees have been cut down			
		A recently pruned tree			
	d.	A type of sawmill method			
38. The number of birds in a forest decrease after a clearcut.					
	a.	True			
	b.	False			

39. Because the goal of thinning is to maintain a steady growth rate:

d. don't monitor the tree as you won't see a difference

b. Thinning every couple of days is importantc. monitoring the growth rate is important

b. diameter of the branch to be pruned.c. reason why the tree needs pruned

a. fertilizing often is important

40. Pruning tools are chosen based on the:

d. diameter of the tree

a. type of tree

41. Which method of management control when it comes to animals is controversial?			
a. repellants			
b. using toxins			
c. hunting			
d. Frightening			
42. All commercial repellants must be applied following:			
 a. how many animlas your trying to keep away 			
b. your own judgment			
c. label directions			
d. What a friend tells you			
43. What is a sign of deer browse?			
a. Damaged bark			
b. Holes near the trees			
c. Root damage			
d. None of the above			
44. What is a common alternative to a complete harvest every 80 years?			
a. 15 year harvests			
b. 20 year harvests			
c. 10 year harvests			
d. 100 year harvests			
45. What can cause both direct and indirect injuries to trees?			
a. Rabbits			
b. Livestock			
c. Deer			
d. Voles			
46. Some environmental and management related injuries can be treated, but it is best to :			
a. prevent their occurence			
b. Know what you are dealing with first			
c. Not treat it and let it heal naturally			
d. Assume the injuries are from animals and put up fencing			
47. Sunscald is a type of injury?			
a. Spring			
b. Summer			
c. Fall			
d. Winter			
	?		
d. Winter	?		
d. Winter48. What is the percentage of log length required in clear cutting for a Number 3 grade log	?		
d. Winter48. What is the percentage of log length required in clear cutting for a Number 3 grade loga. 25%	?		

- a. you are planting a small area
- b. hand planting
- c. you have a strong back and lots of energy
- d. you are planting a big area, more than 5 acres
- 50. Ideally, seedlings should be planted within ______of leaving the nursery.
 - a. 12 hours
 - b. 2 days
 - c. 1 week
 - d. 24 hours