

2021 National FFA Forestry General Knowledge Exam

1.	Which soil type holds the least amount of a. clay b. sand	C.	ater? loam sandy loam
2.	A half-section of land contains acres. a. 40 b. 80		160 320
3.	The DBH range of trees in sapling stands a. 0" - 5" b. 5" - 10"	C.	10" – 15" none of the above
4.	A block of wood 4 inches thick by 6 inche contains board feet of wood volume. a. one b. two	C.	vide and 12 inches long three four
5.	Trees that have the largest crowns and ar stand are called trees. a. intermediate b. co-dominant	C.	aller than other trees in the suppressed dominant
6.	Which one of the following species has one a. oak b. maple	C.	osite leaf arrangement? hickory sycamore
7.	The tree tissue responsible for transporting the roots is called: a. xylem b. cambium	C.	food made in the leaves to phloem bark
8.	What two measurements are needed to ostand? a. age and DBH b. height and DBH c. DBH and soil index		ermine the site index of a age and height

9.	The proper distance one should hold a Biltmore stick from their eye is				
	inches.		0.5		
	a. 15 b. 20		25 30		
	b. 20	u.	30		
10.	Name the regeneration system where he scattered throughout the harvested area forest stand.		• · • •		
	a. clearcut		seed tree		
	b. shelterwood	d.	single-tree		
11.	How many seedlings will be planted on o a. 302		acre at a spacing of 10'x10'? 889		
	b. 436	d.	1,742		
10					
12.	A hypsometer measures: a. soil moisture	C	tree diameter		
	b. tree volume		tree height		
13.	The study of forest diseases is called:				
	a. dendrology		forest entomology		
	b. forest pathology	d.	forest hydrology		
14.	Log grade is NOT determined by which factor?				
	a. length		defects		
	b. diameter	d.	age		
15.	What are the dimensions for a standard of a. 2 feet high x 4 feet wide x 8 feet long b. 4 feet high x 4 feet wide x 8 feet long	cord	d of wood?		
	c. 4 feet high x 2 feet wide x 8 feet long				
	d. 4 feet high x 4 feet wide x 4 feet long				
16					
16.	The term that describes the decreasing s travels up the stem.	ıze	in a tree's diameter as one		
	a. taper	C.	wane		
	b. sweep	d.	lean		
17.	The best time to regenerate a forest by hand or machine planting is:				
17.	a. late fall or winter		spring		
	b. late winter or early spring		summer		

18.	A person took a total of 80 paces to travel What is the person's pace length?			
	a. 5.0 feet b. 5.5 feet		6.0 feet 6.5 feet	
19.	DBH refers to a height inches from the a. 42	_	ound: 54	
	b. 48		60	
20.	Pulpwood is the term used for wood prima. firewood		ly cut for what product? Iumber	
	b. veneer		paper products	
21. Creosote, Penta, CCA and copper naphthenate are all chemicals whave been used in:			ate are all chemicals which	
	a. making paper		herbicides	
	b. preserving wood	d.	insecticides	
22.	Drupe, pome, achene, and samara all refe			
	a. tree floweringb. tree fruit		tree leaves tree orders	
23.	23. Science dealing with the measurement of volume, growth and development of individual trees and stands, and the determination the various products obtainable from them is:			
	a. silviculture	c.	pathology	
	b. ecology	a.	mensuration	
24.	Mounds of soil used to divert run-off water a. road terraces		ff woods roads are called: high boys	
	b. water bars		diversion ditches	
25.	The angular difference between magneti what?	c n	orth and true north is called	
	a. bearing		declination	
	b. azimuth	a.	none of the above	
26.	What part of a timber sale contract deper boundaries?	nds	upon the property	
	a. Preamble		Conditions of payment	
	b. Description of sale area	d.	Designation of which trees to cut	

27.	If you are traveling an azimuth of 135, you are headed in a direction.				
	a. Northwest	C.	Southeast		
	b. Northeast	d.	Southwest		
28.	What is the form class of a tree 18 inches diameter inside bark at the top of the first a. 83 b083	t 16 c.			
29.	Which specie and bark type is incorrect? a. American Beech – Smooth b. Eastern White Pine – Scaly		Birch - Plated Black Oak –Furrowed		
30.	An insect that belongs to the coleoptera order, and feeds on plant and animal matter.				
	a. Gypsy Moth	C.	Southern Pine Beetle		
	b. Pine Sawfly	d.	Cicadas		
31.	Which of the following is NOT an angiosp	err	n?		
	a. Oaks		Firs		
	b. Elms	d.	Hickory		
32.	leaflets are laterally attach	ed	along each side of the rachis.		
	Example: Hickory. a. Palmately Compound	C.	Bipinnately Compound		
	b. Pinnately Compound		Simple		
33.	The standard scale for a 7.5 minute topo r	ma	p is		
	a. 1:24,000		1:63,360		
	b. 1:250,000	d.	none of the above		
34.	The sum of the plot area sampled should total area of tracts under 300 acres.	rep	present percent of the		
	a. 50	C.	30		
	b. 40	d.	20		
35.	The sale of timber creates capital gains in a. True b. False	COI	me.		

36.	and are the main constitue a. carbohydrates / starches b. starches / cellulose	ents of wood. c. cellulose / carbohydrates d. lignin / cellulose		
37.	The type of fruit produced by a tree is det	termined by the nature of the		
	a. leaf b. bark	c. ovary d. root system		
38.	What is the correct order? a. Class, Genus, Species, Order b. Order, Species, Genus, Class c. Family, Genus, Species, Kingdom d. Order, Family, Genus, Species			
39.	Which of the following is NOT a biological factor affecting a tree's			
	environment? a. Pyric Activity b. Fungi	c. Small animal life d. Microorganisms		
40.	Broadleaf trees generally represent which of the following strata in a forest?			
	a. canopy b. herb layer	c. understory d. shrub layer		
41.	The population of plants that occupies an environment when the succession of plant species is complete and the plant population has stabilized is known as a:			
		c. climax community d. boreal forest		
42.	A permeable structure found in plant cells that restrict the kind of materials that can enter a cell is the:			
	a. nucleoplasm b. cell membrane	c. cell wall d. vacuole		
43.	A high-energy molecule that is formed during the first light reaction of			
	photosynthesis is: a. NADPH b. ATP	c. cellulose d. chlorophyll		

- 44. Which of the following natural cycles is NOT an elemental cycle?
 - a. carbon cvcle

c. water cycle

b. nitrogen cycle

d. oxygen cycle

- 45. A fruiting body is:
 - a. a structure that produces spores that develop into fungi
 - b. a fleshy structure that surrounds the seeds of a plant
 - c. a then strand of fungal tissue that enters tree roots, infecting them with disease organisms
 - d. a structure on a tree leaf in which sap become fermented to produce honeydew
- 46. Some kinds of plant release chemicals into the area close around them that provide small doses of poison to young plants that invade their territory. This defensive plant response is known as:

a. germicide

c. allelopathic effect

b. herbicide

- d. chemical warfare
- 47. A timber harvest operation in which entire trees are processed in the forest to produce biomass is called:

a. debarking

c. chaining

b. bucking

d. chipping

- 48. A firestorm is caused by:
 - a. ash that has drifted down from the atmosphere above the fire
 - b. a thunderstorm
 - c. erratic winds that move the fire into the forest canopy where there is plenty of fuel
 - d. lightning strikes
- 49. A pulping process in which wood fibers are separated by dissolving the lignin that cements them together is called:

a. hydra pulping

c. mechanical pulping

b. chemical pulping

d. disk refining

- 50. A tensiometer is an instrument that is used to:
 - a. calculate the strength of a tree
 - b. measure the purity of irrigation water by testing the surface tension of water
 - c. estimate the flexibility of tree limbs
 - d. measure the water content of soil



CAREER DEVELOPMENT EVENT

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Knowledge Exam Key

Question	Answer	Point	Standard
1.	В	2	CS.04.01
2.	D	2	ESS.05.01
3.	А	2	NRS.01.02
4.	В	2	NRS.01.02
5.	D	2	NRS.01.05
6.	В	2	NRS.01.02
7.	С	2	PS.02.02
8.	D	2	NRS.01.02
9.	С	2	ESS.01.02
10.	С	2	NRS.01.05
11.	В	2	NRS.01.02
12.	D	2	CS.03.04
13.	В	2	NRS.04.03
14.	D	2	NRS.01.02
15.	В	2	NRS.01.02
16.	А	2	NRS.01.02
17.	А	2	NRS.03.01
18.	А	2	ESS.05.01
19.	С	2	NRS.01.02
20.	D	2	NRS.01.05
21.	В	2	NRS.02.04
22.	В	2	NRS.01.02
23.	D	2	ESS.05.01
24.	В	2	NRS.01.01
25.	С	2	ESS.05.01
26.	В	2	NRS.02.04
27.	С	2	ESS.05.01
28.	Α	2	NRS.01.02





Question	Answer	Point	Standard
29.	С	2	NRS.01.02
30.	С	2	NRS.01.02
31.	С	2	NRS.01.02
32.	В	2	NRS.01.02
33.	А	2	ESS.05.01
34.	D	2	NRS.01.02
35.	А	2	NRS.02.04
36.	D	2	PS.02.02
37.	С	2	PS.02.02
38.	D	2	PS.02.02
39.	А	2	NRS.01.05
40.	Α	2	NRS.01.05
41.	С	2	PS.02.02
42.	В	2	PS.02.02
43.	В	2	CS.06.01
44.	С	2	PS.02.02
45.	А	2	NRS.04.03
46.	С	2	NRS.03.01
47.	D	2	NRS.04.04
48.	Α	2	NRS.02.04
49.	В	2	NRS.02.04
50.	D	2	CS.03.04



