

2019 Forestry Career Development Event

Directions: Select the best answer and bubble it in on the score sheet provided. You may write on test booklet

KNO	OWLEDGE EXAM
1.	How many square feet are in 2.5 acres? A. 25,000 B. 43,560 C. 87,120 D. 108,900
2.	When felling a tree, a removes a wedge of wood from the side where the logger wants the tree to fall. A. Back cut B. Over cut C. Undercut D. Front cut
3.	Name the regeneration system where mature timber is removed, usually the oldest or largest trees, either as single scattered trees or in small groups at relatively short intervals, commonly 5 to 20 years. A. Selection B. Clearcut C. Seed Tree D. Shelterwood
4.	If Mr. Fletcher plans to plant 50 acres of Longleaf Pine seedlings on 8 feet x 10 feet intervals. How many seedlings per acre will Mr. Fletcher plant? A. 96 B. 432 C. 454 D. 545

5.		t part of a timber sale contract depends upon the property boundaries? Preamble
	В.	Description of sale area
	C.	Conditions of payment
	D.	Designation of which trees to cut
6.		ch of the following is not a surface-rooted species?
		Birch
		Lodgepole Pine
		Hickory
	υ.	Hemlock
7.		process of consuming carbohydrates and oxygen to obtain energy for the gical processes of life support, growth, and reproduction is called
	Α.	Photosynthesis
		Respiration
		Transpiration
		Oxidation
8.	If th	e male and female flower parts occur in separate flowers on the same tree,
		species is said to be
	Α.	Dioecious
	В.	Monoecious
	C.	Carpellate
	D.	Angiosperms
9.	=	ou are traveling an azimuth of 265, you are headed in a ction. Northwest Northeast
	C.	Southeast
		Southwest

	A. DentateB. IncisedC. TruncateD. Lanceolate
11.	What is the form class of a tree 16 inches in dbh and 12 inches in diameter inside bark at the top of the first 16-foot log? A. 75 B075 C. 1.33 D. 133
12.	is a method in which the performance of a genotype is tested over a geographic range. A. Genetic engineering B. Progeny testing C. Provenance testing D. Clone testing
13.	are the fastest spreading of all types of fires. A. Crown fires B. Ground fires C. Surface fires D. None of the above
14.	Length of darkness influences plant growth. This is known as A. Geotropism B. Thermotropism C. Photoperiodism D. Light Intensity
15.	Which of the following is not a type of veneer? A. Sawed B. Scraped C. Sliced D. Rotary Cut

10. Which of the following is a common leaf form?

16.		eral layers of vegetation found in a forest is called the Strata
	В.	Canopy
	C.	Herb layer
	D.	Shrubs
17.		rule assumes 1-inch boards and ¼ inch kerf, makes a liberal
		vance for slabs, and disregards taper.
		International Rule
		Doyle-Scribner Rule
		Doyle Rule
	D.	Scribner Rule
18.		which of the following would a fungicide be used?
		Aphid
		Slime Flux
	_	Heart Rot
	D.	Nematode
19.	Whe	n fuel burns, it reacts with oxygen from the surrounding air releasing heat
		generating
		Pyrophoric
		Pyrolysis
	_	Oxidation
	D.	Deflagration
20.		are considered to be better sources for fuelwood.
	Α.	Softwoods
	В.	Hardwoods
	C.	Low-density woods
	D.	Medium density woods
21.	Whic	ch of the following is an accurate portrayal of the stages of succession?
	A.	Perennials, annual weeds, shrubs, young trees
	В.	Annual weeds, shrubs, perennials, young trees
	C.	Annual weeds, young trees, shrubs, perennials
	D.	Annual weeds, perennials, shrubs, young trees

22.	is a small leaf like appendage to a leaf, typically borne in pairs at the base of the leaf stalk.					
	A.					
		Petiole				
		Axillary Bud				
		Lenticel				
	υ.	Lenticei				
23.	Whe	noccurs the seed breaks dormancy and begins to sprout.				
	Α.	Fertilization				
	В.	Pollination				
	C.	Germination				
	D.	Asexual Reproduction				
24.	nortl	re rectangle survey system developed by Thomas Jefferson,run to south.				
	A.	Principal Meridians				
	В.	Primary Meridians				
	C.	Secondary Meridians				
	D.	Guide Meridians				
25.		is a cell structure that gathers excess water and wastes that are				
		narged through the cell wall. Mitochondrion				
	В.	Golgi Apparatus				
	C.	Chloroplast				
	D.	Vacuole				
26.	A sa	pling is a tree that is more thanin height and up toin				
		diameter.				
	A.	2', 3"				
	В.	3', 6"				
	C.	3', 4"				
	D.	1', 2"				

27.	How many board feet are present in a 2 inch thick, 12 inch wide, and 144 inch long board? A. 24 B. 288 C. 144 D. 32
28.	An anther is a plant structure found on/in the A. Leaf B. Flower C. Stem D. Root
29.	The first plants to grow naturally in a burned or cleared area are called A. Softwoods B. Pioneers C. Hardwoods D. Shrubs
30.	A dicot hascotyledon(s). A. One B. Two C. Three D. None
31.	Which of the following is not correct? A. Sycamores as aggregate fruit B. Pines have cones C. Maples have samaras D. Oaks as indehiscents
32.	John's step factor is 2.86 feet. How many steps does John take to measure a distance of 100 feet? A. 40 B. 39 C. 35 D. 34

33.	The scientific name for Chestnut Oak is A. Quercus velutina
	B. Quercus alba
	C. Quercus rubra
	D. Qurercus montana
	D. Qui el cus montana
34.	is lumber sawn in the horizontal plane, or end surface, of a log.
	A. Plain-sawn wood
	B. Quarter-sawn wood
	C. Endgrained-sawn wood
	D. None of the above
35.	Ais formed through meiosis consists of one chromatid from each original
<i>JJ</i> .	chromosome pair.
	A. Haploid cell
	B. Diploid cell
	C. Tetrad cell
	D. Mother cell
36.	Pulpwood being processed for paper is debarked then chipped into pieces about in size.
	A. 1
	B. 2
	C. 3
	D. 4
	D. ч
37.	To use the, a forester pushes or drives the cutting edge through
	the bark until it reaches wood, then pushes the guard against the tree or log for a
	measurement.
	A. Bark Gauge
	B. Increment Borer
	C. Tree Caliper
	D. Soil Auger

38.	A. B. C.	mplete soil profile includes these horizons in what order? A,B,C,E,O,R B,A,C,O,E,R O,A,E,B,C,R R,O,A,C,E,B			
39.		maps are color-enhanced photographic images that show land			
	featu				
	Α.	Orthophoto			
	В.	Physical			
	C.	Relief			
	D.	Road			
40.	chen invac A. B. C.	e kinds of plants maintain their dominance over other plants by releasing nicals into the area close around them that provide small doses of poison to ding plants. This is called Allelopathic effect Adaptive behavior Carbonization process Dendrification			
41.	follo	degree of acidity or alkalinity of a soil is expressed in pH values. Which of the wing pH values is most acidic? 8.5			
	В.	7.0			
	C.	5.5			
	D.	4.0			
42.		is a lengthwise separation of the wood, which usually extends			
	across the rings of annual growth, commonly resulting from stresses set up in				
		d during seasoning.			
	Α.				
	В.	Charles			
	C.	Check			
		I IIIIK			

43.	You tally 9 trees using a 10 factor wedge prism within a plot. What is the basal area in square feet per acre of the trees around that point? A. 0.9 B. 9 C. 90 D. 10
44.	If Area = Pi x radius ² , then what is the plot radius for 1/5 acre? A. 37.25 feet B. 52.6 feet C. 58.9 feet D. 66 feet
45.	Which specie and bark type is incorrect? A. American Beech – Smooth B. Eastern White Pine – Blocky C. Hickory – Furrowed D. Black Oak – Furrowed
46.	Assume that a cord of firewood costs \$150, how much would a stack of wood measuring 4' x 4' x 16' cost? A. \$75 B. \$150 C. \$300 D. \$450
47.	How many sections are there in a township? A. 1 B. 36 C. 640 D. 43,560
48.	is the capacity of a tree to develop and grow in the shade while in competition with other trees. A. Tracheids B. Reproduction C. Toughness

D. Tolerance

49.		_a reconstituted board containing a high percentage of wood shaving in the
		ral core with layers of wood flakes on either side of the core and fine sawdust
	near	the surface.
	Α.	Particleboard
	В.	OSB
	C.	Fiberboard
	D.	Hardboard
50.	Axial	parenchyma cells originate from the cambium forming a network ofcells around the tree. They transport sugars (food) to the parenchyma
	cells	within the growth ring, and they store starch.
	Α.	Living
	В.	Dead
	C.	Segmented

D. Guard



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KNOWLEDGE EXAM KEY

Question	Answer	Point Value	Standard
1	D	2	NRS.03.02.01.a
2	C	2	CS.03.04.02.c
3	A	2	NRS.01.01.01.c
4	D	2	NRS.01.05.03.c
5	В	2	NRS.01.05.03.c
6	С	2	CS.03.04.03.b
7	В	2	PS.02.03.02.a
8	В	2	PS.02.05.05.b
9	D	2	NRS.03.02.01.a
10	D	2	PS.02.01.01.a
11	A	2	NRS.01.02.06.c
12	C	2	PS.03.01.05.b
13	A	2	NRS.04.04.01.b
14	C	2	PS.01.01.01.b
15	В	2	NRS.02.04.01.a
16	A	2	NRS.01.05.01.b
17	D	2	CS.03.04.02.c
18	C	2	NRS.04.02.01.c
19	C	2	NRS.04.01.01.b
20	В	2	PST.01.01.01.a
21	D	2	NRS.01.05.01.b
22	A	2	PS.02.02.03.a
23	С	2	PS.02.02.06.a
24	A	2	ESS.05.01.01.c
25	D	2	PS.02.02.01.c
26	С	2	NRS.01.02.06.c
27	A	2	NRS.03.01.01.c
28	В	2	CS.03.04.02.c
29	В	2	NRS.01.05.01.b
30	В	2	PS.02.02.04.a
31	A	2	PS.02.02.06.b.
32	С	2	NRS.03.02.01.a
33	D	2	PS.02.01.01.a
34	С	2	CS.03.04.03.b
35	A	2	PS.02.02.01.b
36	A	2	NRS.02.04.01.a
37	A	2	CS.03.04.02.c

38 C 2 NRS.01.02.05.b 39 C 2 NRS.03.02.01.a 40 A 2 NRS.01.05.03.c 41 D 2 NRS.01.02.05.b 42 C 2 PS.02.02.03.a 43 C 2 NRS.01.02.06.c 44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b 49 Δ 2 NRS.02.04.01.a				
40 A 2 NRS.01.05.03.c 41 D 2 NRS.01.02.05.b 42 C 2 PS.02.02.03.a 43 C 2 NRS.01.02.06.c 44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	38	С	2	NRS.01.02.05.b
41 D 2 NRS.01.02.05.b 42 C 2 PS.02.02.03.a 43 C 2 NRS.01.02.06.c 44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	39	С	2	NRS.03.02.01.a
42 C 2 PS.02.02.03.a 43 C 2 NRS.01.02.06.c 44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	40	A	2	NRS.01.05.03.c
43 C 2 NRS.01.02.06.c 44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	41	D	2	NRS.01.02.05.b
44 B 2 ESS.05.01.01.c 45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	42	С	2	PS.02.02.03.a
45 B 2 NRS.01.02.01.b 46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	43	С	2	NRS.01.02.06.c
46 C 2 NRS.03.01.01.c 47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	44	В	2	ESS.05.01.01.c
47 B 2 NRS.03.02.01.a 48 D 2 PS.01.01.01.b	45	В	2	NRS.01.02.01.b
48 D 2 PS.01.01.01.b	46	С	2	NRS.03.01.01.c
	47	В	2	NRS.03.02.01.a
49 A 2 NRS 02 04 01 a	48	D	2	PS.01.01.01.b
17 A 2 11KS.02.04.01.a	49	A	2	NRS.02.04.01.a
50 A 2 PS.02.02.01.c	50	A	2	PS.02.02.01.c