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A.F.P.A. FALL 2013 & SPRING 2014 GRADE EXAM

Nan	hpany: k the answer you choose with an [X]. ONLY The newest growth in height is called: [] Trunk [] Leader		Date:				
Con	npany:		Location:				
Mar	k the answer you choos	e answer you choose with an [X]. ONLY ONE ANSWER PER QUESTION PLEASE! The newest growth in height is called: Trunk [] Leader [] Cambium [] Bast Trunk is also called: Sapwood [] Seat of Tree Growth [] Bast [] Cambium The healing agent in the tree is called: [] Bark [] Cambium The healing agent in the tree is called: [] Bark [] Cambium The healing agent in the tree is called: [] Bark [] Pitch The same and the cell walls is called:	ON PLEASE!				
1.	The newest growth in	height is called:					
	[] Trunk	[] Leader	[] Cambium	[] Bast			
2.	The inner bark is also	called:					
	[] Sapwood	[] Seat of Tree Growth	[] Bast	[] Cambium			
3.	The healing agent in th	ne tree is called:					
	[] Bark	[] Cambium	[] Pith	[] Pitch			
4.	Water contained in the	cell walls is called:					
	[] Free Water	[] Bound Water	[] Hard Water	[] Soft Water			
5.	Which specie is being	attacked by the "Mountain F	Pine Beetle"?				
	[] Douglas Fir	[] Balsam Fir	[] Lodgepole Pine	[] Tamarack			

6.	Which of the following	specie is <u>in</u> the S- l	P-F spe	ecies group:	
	[] Tamarack	[] Douglas Fir		[] Jack Pine	[]Sitka Spruce
7.	Lumber grade stamped	KD-HT or S-DRY	must r	not exceed what Moisture (Content?
	[] 10%	[] 15%		[] 19%	[] 26%
8.	Fibre saturation point of	ccurs at approxim	ately:		
	[] 10%	[] 15%		[] 19%	[] 26%
9.	A piece of lumber that	dries from 85% M0	C to 45°	% MC will become:	
	[] Stronger	[] Lighter		[] Brighter	[] Durable
10-1	3. Match the chara	cteristics with the de	escriptic	on. (e.g. <u>a</u>)	
a)	14" long		10.	1/4 the length of a 7'	
b)	60" long		10.	1/4 tile leligtil of a /	
c)	32" long		11.	1/3 the length of a 8'	
d)	22" long		12.	1/6 the length of a 12'	
e)	21" long		12.	170 the length of a 12	
f)	24" long		13.	1/2 the length of a 10'	

	DEFECT	1/64"	1/32"	1/16"	1/8"	Over 1/8"
4.	Light Machine Gouge	[]	[]	[]	[]	[]
54.	Medium Torn Grain	[]	[]	[]	[]	[]
16.	Very Heavy Offset	[]	[]	[]	[]	[]
17.	Heavy Skip	[]	[]	[]	[]	[]

Marl	Mark the correct dressed WIDTH for the following:							
18.	2 x 10 S-GRN	[] 9 1/4"	[] 9 3/4"	[] 9 1/2"	[] 10"			
19.	2 x 6 S-GRN HT	[] 5 1/2"	[] 5 5/8"	[]6"	[] 5 9/16"			
20.	2 x 4 KD-HT	[] 3 9/16"	[] 3 1/2"	[] 3 5/8"	[] 3 1/4"			
21.	2 x 3 S-DRY	[] 2 1/4"	[] 2 3/4"	[] 2 1/2"	[] 3"			

Marl	Mark the correct dressed THICKNESS for the following:							
22.	2 x 10 S-DRY	[] 1 3/4"	[] 1 9/16"	[] 1 5/8""	[] 1 1/2"			
23.	4 x 10 KD-HT	[] 3 7/16"	[] 3 1/2"	[] 3 9/16"	[] 3 5/8"			
24.	3 x 10 S-GRN	[] 2 1/2	[] 2 9/16	[]3	[] 2 1/4			
25.	1 x 10 KD-HT	[] 3/4"	[] 25/32"	[] 15/16"	[] 1"			

Mar	Mark the Highest grade of Par.121 Stud that allows the following for a 2 x 4 - 92 5/8" long:					
	DEFECT	STUD	ECONOMY			
26.	Skip 1/8" for 2' long on the edge	[]	[]			
27.	100% firm White Speck	[]	[]			
28.	Wane 1/3 thickness full length	[]	[]			
29.	Skip 1/16" full length on one wide face	[]	[]			
30.	Edge Knot 50% displacement	[]	[]			
31.	Split twice the width of the piece	[]	[]			

Mark the **HIGHEST** grade of **Par. 122 Light Framing** that allows the following for a **2 x 4 - 16** feet long: CONSTRUCTION **STANDARD** DEFECT UTILITY **ECONOMY** Wane 1/2 T X 3/4 W full length 32. [] [] [] [] 33. Surface Shake 2 feet long [] [] [] [] 34. Wane 1/3 thickness full length [] [] [] [] 35. Decay 1/2 the cross section [] [] [] [] White Speck **50%** of the volume 36. [] [] [] []

	DEFECT	CONSTRUCTION	STANDARD	UTILITY	ECONOMY		
37.	Split 9 inches long	[]	[]	[]	[]		
38.	Wane completely through narrow face on the end	[]	[]	[]	[]		
39.	Medium warp	[]	[]	[]	[]		
40.	Firm White Speck	[]	[]	[]	[]		
	Mark the HIGHEST grade of Par. 124 Structural Light Framing and Joist & Planks that allows the following in						

a **2 x 4-16** feet long:

	DEFECT	SEL STR	#1	#2	#3	NONE
41.	White Speck 1/3 the volume	[]	[]	[]	[]	[]
42.	Wane on END 3/4 width	[]	[]	[]	[]	[]
43.	Wane 2/3 thickness on the END	[]	[]	[]	[]	[]
44.	Slope of Grain 1 in 12	[]	[]	[]	[]	[]
45.	10% Heart Stain	[]	[]	[]	[]	[]
46.	Decay on the face 1/6W x 2"long	[]	[]	[]	[]	[]
47.	Skip 1/8 inch deep 3 feet long	[]	[]	[]	[]	[]
48.	Three Face Shake 5 feet long	[]	[]	[]	[]	[]
49.	Wane 1/4 T x 1/4 W full length	[]	[]	[]	[]	[]
50.	Light Warp	[]	[]	[]	[]	[]
51.	100% heart stain	[]	[]	[]	[]	[]
52.	Through shake 2 feet long	[]	[]	[]	[]	[]
53.	Split 1/6 the length	[]	[]	[]	[]	[]
54.	Wane completely across Wide Face 1 feet long on the end	[]	[]	[]	[]	[]
55.	Surface Shake 5 feet long	[]	[]	[]	[]	[]
56.	1240 Grub Holes on one face	[]	[]	[]	[]	[]

List the knot sizes for the following KD-HT 2 x 4's

