

## ALBERTA FOREST PRODUCTS ASSOCIATION 900, 10707 100<sup>th</sup> Avenue EDMONTON, ALBERTA T5J 3M1 PHONE: (780) 452-2841 FAX: (780) 455-0505

A.F.P.A. FALL 2018 & SPRING 2019 GRADE EXAM

Name:			Date:				
Con	npany:		Location:				
Marl	k the answer you choose	e with an <b>[X</b> ]. ONLY ONE Al	NSWER PER QUESTIO	N PLEASE!			
1.	Which is NOT part of the	ne trunk?					
	[ ] Heartwood	[ ]Leaves	[ ] Pith	[ ] Bark			
2.	. Which of the following species is a Hardwood?						
	[ ] Jack Pine	[ ] Tamarack	[ ] Birch	[ ] Douglas Fir			
3.	. Bark or lack of wood, on the edge or corner of the piece, is known as:						
	[ ] Eased Edge	[ ] Inner Bark	[ ] Wane	[ ] Sapwood			
4.	. The "Seat of Tree Growth" of the tree is called:						
	[ ] Pits	[ ] Cambium	[ ] Leader	[ ] Terminal Bud			
5.	Which is a desirable fe	ature of lumber?					
	[ ] It Splits	[ ] Susceptible to Decay	[ ] It Burns	[ ] Re-grows Well			

6.	[ ] Surface [ ] 3 Face Shake [ ] Through [ ] Ring shake  A deviation Flatwise from a line drawn from EDGE to EDGE is called:  [ ] Crook [ ] Cup [ ] Bow [ ] Twist  The abbreviation HT is:  [ ] Heat Treated [ ] Heat Transfer [ ] Held Today [ ] Heavy Timber							
	[ ] Surface	[ ]3 Face	Shake	[ ] Throu	ıgh	[ ] Ring shake		
7.	A deviation <b>Flatwise</b>	from a line dra	wn from <b>EDG</b>	E to EDGE	is called:			
	[ ] Crook	[ ] Cup		[ ]Bow		[ ] Twist		
8.	The abbreviation <b>HT</b>	is:						
	[ ] Heat Treated	[ ] Heat T	ransfer	[ ] Held Today		[ ] Heavy Timber		
9.	Which grade <b>CAN</b> be	e applied on a 2	2x6 – 16 foot:					
	[ ] Construction	[ ] Standa	rd	[ ]#3 Structural		[ ] Utility		
	Mark the following <b>DEFECTS</b> under the correct <b>CLASSIFICATION</b> :							
	Defect	Natural		Manu	ıfacturing	Seasoning		
10.	Knot Cluster	[	]		[ ]	[ ]		
11.	Knot Hole	[	]		[ ]	[ ]		
12.	Machine Bite	[	]		[ ]	[ ]		
13. Roller Check		[	]		[ ]	[ ]		
Mate	ch the following <b>MANUF</b> .	ACTURING DE	FECTS to the co	orrect <b>DEPT</b>	H CLASSIFICA	TION:		
	DEFECT	1/64"	1/32"	1/16"	1/8"	Over 1/8"		
14.	Medium Torn Grain	[]	[]	[ ]	[]	[ ]		
15.	<b>Heavy</b> Skip	[]	[]	[ ]	[]	[ ]		
16.	Light Machine Offset	[]	[]	[]	[]	[]		
17.	Very Light Skip	[]	[]	[]	[]	[ ]		
Mar	k the correct dressed <b>TH</b>	IICKNESS for th	e following:					
18.	<b>2</b> x 4 KD-HT	[ ] 1 1/2"	[ ] 1 3/	/4"	[ ] 1 9/16"	[ ] 1 5/8"		
19.	1 x 4 S-DRY HT	[ ] 1/2"	[ ] 5/8	3"	[ ] 3/4"	[ ] 25/32"		
20.	<b>3</b> x 4 KD-HT	[ ]2 9/16"	[ ]21/	/2"	[ ] 2 5/8 "	[ ] 2 1/4"		
24	4 × 40 C CDN	[ 10 4/4"	. 100	/4 C!!	r 104/0"	F 1 4"		

Mark the correct dressed <b>WIDTH</b> for the following:							
22.	2 x <b>4</b> S-DRY	[ ] 3 1/2"	[ ] 3 9/16"	[ ] 3 5/8"	[ ] 4"		
23.	3 x <b>4</b> S-GRN	[ ] 3 1/4"	[ ] 3 1/2"	[ ] 3 9/16"	[ ] 3 5/8"		
24.	2 x <b>12</b> S-GRN	[ ] 11 1/2"	[ ] 11 9/16"	[ ] 11 5/8"	[ ] 12"		
25.	4 x <b>10</b> KD-HT	[ ] 9 1/4"	[ ] 9 1/2"	[ ] 9 7/16"	[ ] 10"		

Mark the <b>Highest</b> grade of <b>Par.121 Stud</b> that allows the following for a <b>2 x 3 - 92 5/8</b> " long:					
	DEFECT	STUD	ECONOMY		
26.	Warp ½ Medium	[ ]	[ ]		
27.	Wane <b>3/4</b> edge on the <b>END</b>	[ ]	[ ]		
28.	Para. 750 on the <b>END</b>	[ ]	[ ]		
29.	1 in 6 Slope of Grain	[ ]	[ ]		
30.	Unsound wood 1/3 cross section	[ ]	[ ]		
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 - 14** feet long:

	DEFECT	CONSTRUCTION	STANDARD	UTILITY	ECONOMY
32.	White Speck 50%	[ ]	[ ]	[]	[ ]
33.	Surface Shake Full Length	[]	[ ]	[ ]	[ ]
34.	Full length wane, <b>1/4</b> width	[ ]	[ ]	[ ]	[ ]
35.	1 in 8 Slope of Grain	[ ]	[ ]	[]	[ ]
36.	Knot 21/2" on the edge of face	[ ]	[ ]	[]	[ ]
37.	Split 1/6 of the length	[ ]	[ ]	[ ]	[ ]
38.	1/16" of Skip – ½ Length	[ ]	[ ]	[ ]	[ ]
39.	1/16" of Skip – 4 feet long	[ ]	[ ]	[ ]	[ ]
40.	Heavy Skip 2'	[]	[ ]	[]	[]

Mark the **HIGHEST** grade of **Par. 124 Structural Light Framing and Joist & Planks** that allows the following in a **2 x 6-12** feet long:

	DEFECT	SEL STR	#1	#2	#3	NONE
41.	Wane 1/4 T x 1/4 W full length	[ ]	[ ]	[ ]	[ ]	[ ]
42.	Spike Knot <b>55%</b> displacement	[ ]	[ ]	[ ]	[ ]	[ ]
43.	Wane 2/3 T on the end	[ ]	[ ]	[ ]	[ ]	[ ]
44.	Slope of Grain 1 in 10	[ ]	[ ]	[ ]	[ ]	[ ]
45.	1/16" of Skip for ½ length	[ ]	[ ]	[ ]	[ ]	[]
46.	Heavy Warp	[ ]	[ ]	[ ]	[ ]	[ ]
47.	1/16" of Skip Full Length	[ ]	[ ]	[ ]	[ ]	[ ]
48.	Through Shake <b>1 foot</b> long	[ ]	[ ]	[ ]	[ ]	[]
49.	Wane 3/4 T x 3/4 W On the END	[ ]	[ ]	[ ]	[ ]	[]
50.	Wane 2/3T x 1/2W On the END	[ ]	[ ]	[ ]	[ ]	[]
51.	Decay 1/2 cross section	[ ]	[ ]	[ ]	[ ]	[ ]
52.	Edge Knot <b>50</b> % displacement	[ ]	[ ]	[ ]	[ ]	[ ]
53.	Split 18" long	[ ]	[ ]	[ ]	[ ]	[]
54.	100% Heart Stain	[ ]	[ ]	[ ]	[ ]	[ ]
55.	White Speck 100% of the volume	[ ]	[ ]	[ ]	[ ]	[ ]
56.	Firm Honeycomb 1/6 the width	[ ]	[ ]	[ ]	[ ]	[ ]

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

