

A.F.P.A. FALL 2017 & SPRING 2018 GRADE EXAM

| Nar | ne: | | Date: | |
|-----|-----------------------|----------------------------|--|---------------------|
| Cor | npany: | | Location: J. ONLY ONE ANSWER PER QUESTION PLEASE! led? Bark []Pith []Pits tree is: | |
| Mar | TION PLEASE! | | | |
| | | | | |
| 1. | The healing agent i | n the tree is called? | | |
| | [] Pitch | [] Inner Bark | [] Pith | [] Pits |
| 2. | Another name for a | needle leaved tree is: | | |
| | [] Broad Leaf | [] Hardwood | [] Conifer | [] Deciduous |
| 3. | Inner bark is also ca | alled? | | |
| | [] Sapwood | []Bast | [] Pits | [] Heartwood |
| 4. | | GRAIN has the MOST NE | GATIVE effect, on the ST | RENGTH of DIMENSION |
| | lumber? []1 in 4 | [] 1 in 6 | [] 1 in 8 | []1 in 12 |
| 5. | Water and mineral s | solution absorbed from the | e soil is called? | |
| | [] Pitch | [] Syrup | [] Tree Food | []Sap |
| | | | | |

Fall 2017 & SPRING 2018 Grade School Exam

1

| 6. | 6. The abbreviation HT means? | | | | | | |
|------------|---|---|----------------------------|---------------------|--|--|--|
| | [] Heavy Torn | [] Heat Treated | [] Heat Transfer | [] Heat Thickness | | | |
| 7. | Twist in lumber indica | ates the presence of: | | | | | |
| | [] Crook | [] Cup | []Bow | [] Slope of Grain | | | |
| 8. | 8. Which grade of 2x4 has the LOWEST bending strength rating? | | | | | | |
| | []#3 | [] Stud | [] Standard | [] Construction | | | |
| 9. | A CHECK that extend | ds from one wide face to the | e opposite or adjoining su | rface is called : | | | |
| | | | | | | | |
| | [] Surface Check | [] Roller Check | [] Through Check | [] Split | | | |
| | | [] Roller Check EFECTS under the correct CL | | [] Split | | | |
| | | | | [] Split Seasoning | | | |
| 10. | Mark the following DI | EFECTS under the correct CL | ASSIFICATION: | | | | |
| 10. 11. | Mark the following DI | EFECTS under the correct CL | ASSIFICATION: | | | | |
| | Mark the following DI Defect Rot/Decay | EFECTS under the correct CL | ASSIFICATION: | | | | |
| 11. | Mark the following DI Defect Rot/Decay Checks | EFECTS under the correct CL | ASSIFICATION: | | | | |

| | DEFECT | 1/64" | 1/32" | 1/16" | 1/8" | Over 1/8" |
|-----|---------------------------------|-----------------|--------------|-------|-----------|------------|
| 14. | Light Raised Grain | [] | [] | [] | [] | [] |
| 15. | Very Heavy Skip | [] | [] | [] | [] | [] |
| 16. | Light Machine Gouge | [] | [] | [] | [] | [] |
| 17. | Medium Machine Bite | [] | [] | [] | [] | [] |
| Mar | k the correct dressed TH | ICKNESS for the | e following: | | | |
| 18. | 2 x 4 S-GRN HT | []11/2" | []13/4 | "[|] 1 9/16" | [] 1 5/8" |
| 19. | 1 x 4 S-GRN HT | [] 1/2" | [] 5/8" | [|] 3/4" | [] 25/32" |
| 20. | 3 x 4 KD-HT | []2 9/16" | [] 2 1/2 | "[|] 2 5/8 " | []21/4" |
| 21. | 4 x 10 KD-HT | []31/4" | []33/4 | " r |] 3 1/2" | []4" |

Fall 2017 & SPRING 2018 Grade School Exam

2

| Mark the correct dressed WIDTH for the following: | | | | | | | |
|--|---------------------|------------|--------------|-------------|-------------|--|--|
| 22. | 2 x 12 S-DRY | [] 11 ¼" | [] 11 9/16" | [] 11 5/8" | [] 11 1/2" | | |
| 23. | 3 x 8 S-GRN | [] 7 1/4" | []71/2" | [] 7 9/16" | [] 7 5/8" | | |
| 24. | 2 x 6 S-GRN | [] 5 1/2" | [] 5 9/16" | [] 5 5/8" | []6" | | |
| 25. | 4 x 4 KD-HT | [] 3 1/2" | [] 3 3/4" | [] 1 7/16" | []4" | | |

| Mar | k the Highest grade of Par.121 St | ud that allows the f | following for a | 2 x 4 - 10 | 4 5/8" long: | | |
|---|------------------------------------|----------------------|-----------------|------------|--------------|--|--|
| | DEFECT | STUI | ECONOMY | | | | |
| 26. | White Speck 100% | [] | | [] | | | |
| 27. | Wane 3/4 width full length | | [] | | [] | | |
| 28. | Heavy Warp | | [] | | [] | | |
| 29. | 1 in 4 Slope of Grain | | [] | | [] | | |
| 30. | Edge Knot 45% displacement | [] | | [] | | | |
| 31. | Through Shake ½ the length | [] | | [] | | | |
| Mark the HIGHEST grade of Par. 122 Light Framing that allows the following for a 2 x 4 - 10 feet long: | | | | | | | |
| | DEFECT CONSTRUC | | STANDARD | UTILIT | Y ECONOMY | | |
| 32. | White Speck 100% | [] | [] | [] | [] | | |
| 33. | Through Shake 2 ' long | [] | [] | [] | [] | | |
| 34. | Full length wane, 1/2 width | [] | [] | [] | [] | | |
| 35. | 1 in 6 Slope of Grain | [] | [] | [] | [] | | |

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

Knot $1\frac{1}{2}$ " on the edge of face

Split 11/2 X Width

Hit or Miss Skip

Hit & Miss Skip

Heavy Skip 2 feet long

36.

37.

38.

39.

40.

3

[]

[]

[]

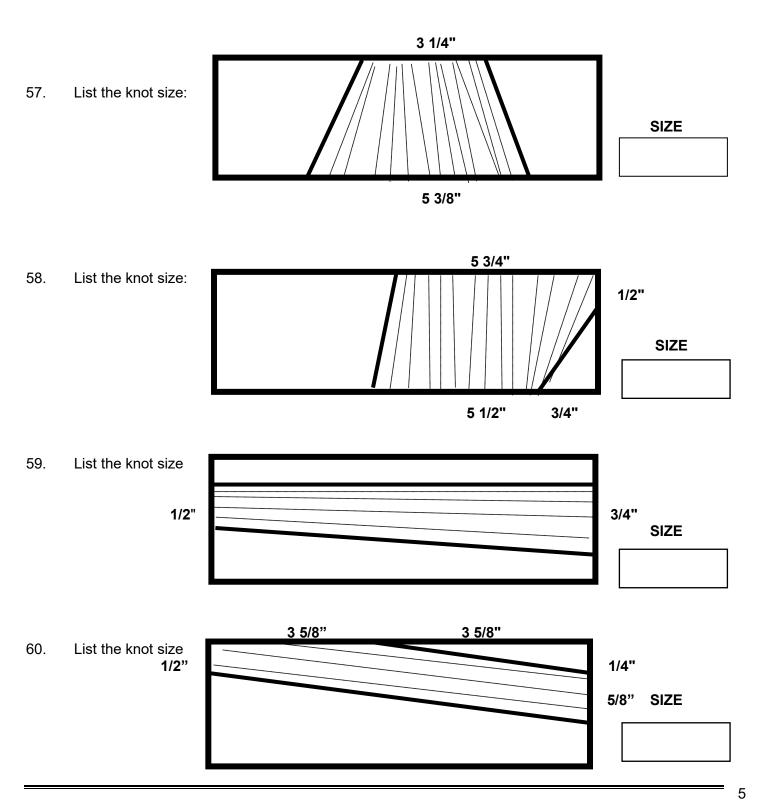
[]

[]

Mark the **HIGHEST** grade of **Par. 124 Structural Light Framing and Joist & Planks** that allows the following in a **2 x 10-12** feet long:

| | DEFECT | SEL STR | #1 | #2 | #3 | NONE |
|-----|-------------------------------------|---------|----|----|----|------|
| 41. | Wane 1/2 T x 1/2 W full length | [] | [] | [] | [] | [] |
| 42. | Spike Knot 50% displacement | [] | [] | [] | [] | [] |
| 43. | Wane 1/2 T on the end | [] | [] | [] | [] | [] |
| 44. | Slope of Grain 1 in 8 | [] | [] | [] | [] | [] |
| 45. | Hit & Miss Skip | [] | [] | [] | [] | [] |
| 46. | Light Warp | [] | [] | [] | [] | [] |
| 47. | Hit or Miss Skip | [] | [] | [] | [] | [] |
| 48. | Through Shake 1/3 the length | [] | [] | [] | [] | [] |
| 49. | Wane 1/4 T x 1/4 W full length | [] | [] | [] | [] | [] |
| 50. | Wane 2/3T x 1/2W Maximum Equiv. | [] | [] | [] | [] | [] |
| 51. | Decay 1/3 cross section | [] | [] | [] | [] | [] |
| 52. | Edge Knot 50% displacement | [] | [] | [] | [] | [] |
| 53. | Split 15 " long | [] | [] | [] | [] | [] |
| 54. | 20% Heart Stain | [] | [] | [] | [] | [] |
| 55. | White Speck 100% of the volume | [] | [] | [] | [] | [] |
| 56. | Firm Honeycomb 1/3 the width | [] | [] | [] | [] | [] |

4



Fall 2017 & SPRING 2018 Grade School Exam