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KERALA AGRICULTURAL UNIVERSITY B.Sc.(Hons.) Forestry 2017 Admission **III Semester Final Examination- January 2019**

Fopu.2102

I

Wood Science and Technology (2+1)

Marks: 50 Time: 2 hours

(10x1=10)Fill in the blanks Shrinkage of wood occurs when ______water is removed from the cell walls. 1 Vertical stacking is employed mostly for drying of _____woods. 2 3 _____and _____are the examples of highly refractory woods. 4 chemical is most widely used in chemical seasoning. 5 Examples of very light woods having specific gravity below 0.28 are _____and _____ 6 Examples of timbers having characteristic lusture are ______and _____ 7 The force acting on a unit area is called ______and the deformation per unit measure 8 is called The point at which linearity of the curve changes to non-linearity in general stress - strain 9 curve is known as the 10 The ratio of stress to strain is known as the_____ (5x2=10)Write Short notes on any FIVE of the following II Density and specific gravity 1 Vertical Stacking for air seasoning 2 Refractory classes of timbers 3 Cross cut saws 4 Boucherie process of wood Preservation 5 Acoustic properties of wood 6 Durability and treatability classes of timbers 7 (5x4=20)Answer any FIVE of the following. III Wood Seasoning and its principles and advantages. 1 Mechanical properties of wood and enlist different mechanical tests for evaluating 2 strength properties of timber. Describe Nail and screw holding test in detail. Seasoning defects and their control with neat labeled diagrams. 3 Importance and needs of wood preservation by enlisting characteristics of ideal 4 preservatives. Different sawing techniques in wood working 5 Dimensional stabilization of wood through surface coating method 6 Kiln seasoning and its advantages over air seasoning. Describe solar kiln in detail. 7 (1x10=10)Answer any ONE of the following IV Physical properties of wood 1 Scope of wood preservation in India and different types of wood preservatives. 2
