

KERALA AGRICULTURAL UNIVERSITY

B.Sc.Hons (Forestry) 2014 Admission

IIIrd Semester Final Examination-February -2016

Cat. No: Wosc. 2103

Marks: 50.00

Title: Wood Science and Technology (2+1)

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. Timber of general purpose needs to be seasoned to about _____ % MC for satisfactory service
2. During seasoning, end coatings are recommended to avoid _____
3. Warping is a _____ defect
4. If the temperature is kept constant, lower RH results in _____ drying rates
5. Kiln dried timber with pronounced residual internal stresses is usually referred to as _____
6. _____ is an excessive and irregular shrinkage of wood during drying
7. In commercial terms, soft wood refers to the timber from _____
8. The light colored outer portion of a tree log consisting of the youngest growth rings is called _____
9. Secondary xylem develops from the activity of _____
10. Wood parenchyma when disassociated with vessels is referred to as _____

II Answer any Five questions

Differentiate between

(5 x 2=10)

1. Anticlinal and periclinal division
2. Early wood and late wood
3. Tension wood and Reaction wood
4. Vessels and Tracheids
5. Defects and Blemish
6. Seasoning and Drying
7. Live and Dead knots

III Write short essays on any Five questions

(5 x 4=20)

1. What are false rings and discontinuous growth rings? Under what conditions might they occur?
2. Factors influence the rate of drying
3. Drying defects according to their nature and cause
4. Structure and composition of wood cell wall
5. Movement of moisture in wood
6. Classification of Indian timber based on seasoning behavior
7. Steps to be taken to avoid defects in timber

IV Write essay on Any ONE

1. Special seasoning methods
2. Mechanical properties of timber

(1 x 10=10)