

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2013 Admission
IIIrd Semester Final Examination- March-2015

Cat. No: Wosc.2103

Title: Wood Science and Technology (2+1)

Marks: 50

Time: 2 hours

I) Fill up the blanks

(10 x 1=10)

1. Impact bending tests are usually done on a _____ machine
2. If wood is to be commercially valuable and economically exploitable it should reach a certain _____
3. Natural twist ,otherwise known as _____ is one of the common timber defects reducing the strength of the material
4. Cellulose constitutes _____ per cent of wood
5. In general 'fat trees' are _____ (softwoods/hardwoods)

State True or False

6. Teak logs if floated down in streams do not usally sink
7. Sandal is a fine textured wood
8. Mulbery is a ring porous wood
9. No species of wood is by itself phosphorescent
10. Certain cryptogams like ferns also produce wood

II Write short notes on any FIVE

(5 x 2=10)

1. Growth rings
2. What is thermal capacity of wood
3. Elastic limit
4. Differentiate between live knot and dead knot
5. Influence of season on felling of trees
6. Why physical properties of wood are important
7. What are the major factors that cause wood decay

III Write short essays on any FIVE of the following

(5 x 4 =20)

1. Specific gravity of wood and its significance
2. Defects in timber due to seasoning
3. Kiln seasoning
4. Combustibility and calorific value of wood
5. Dendrochronology
6. Electrical properties of wood
7. Effect of moisture loss in the dimensional stability of wood

IV Write essay on ANY ONE

(1 x 10=10)

1. Special seasoning methods
2. Various stresses acting upon wood
