KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2014 Admission

II[nd] Semester Final Examination- August-2015

Cat. No: Wosc.1202 Marks: 50

Title: Wood anatomy (2+1) Time: 2 hours

I Fill up the blanks (10 x 1=10)

1. The outer light coloured portion of wood _____
2. Determination of Age of tree is known as _____
3. Major component of cell wall is _____
4. Reaction wood formed in angiosperm is _____
5. Secondary growth absent in monocotyledons is due to the absence of _____in the vascular bundles
6. Water conducting element in gymnosperms is _____
7. Teak is a porous wood_____
8. Fibers are _____cells (type)
9. Small groups of secondary phloem formed by the cambium and seen embedded in the secondary xylem is known as _____
10. The percentage composition of cellulose in hardwood is _____

II Write short notes on any FIVE (5 x 2=10)

1. Importance of wood anatomy and its applications
2. Vascular cambium and its functions
3. What is tyloses .Mention its significance
4. What are the different kinds of woody plants
5. Differences in wood anatomy of gymnosperms and angiosperms
6. Distinguish between apotracheal and paratracheal parenchyma
7. Define growth ring .Write the differences between early wood and late wood

III Write short notes on any FIVE (5 x 4=20)

1. Distinguish between simple pit and bordered pit. Draw a well labeled diagram of simple pit and describe its structure
2. Discuss the influence of silvicultural practices on wood quality
3. Explain the anatomy of dicot stem
4. Explain the basic tissue systems found in primary structure of plants
5. What is the role of tree breeding in the manipulation of wood structure and properties
6. Write an account on general characteristics and microscopic structure of teak
7. Discuss the abnormalities in wood

IV Write essay on ANY ONE (1 x 10 = 10)

1. Explain wood variation .What are the different factors affecting wood property variation
2. Narrate the important macroscopic features of wood

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