



KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Forestry 2016 Admission
II Semester Final Examination-August-2017

Fopu 1201

Wood Anatomy (2+1)

Marks: 50
Time: 2 hours

I Fill in the blanks:

(10x1=10)

- 1 ----- are plants that produce seeds without producing flowers.
- 2 The cells that divide repeatedly leading to growth are called ----- cells.
- 3 Teak is a ----- porous wood.
- 4 ----- is the major constituent of the woody cell walls.
- 5 When axial parenchyma is associated with vessels it is known as -----

State True or False:

- 6 Parenchyma cells have simple pits on their walls.
- 7 Diffuse porous woods always have low density.
- 8 Tracheids are dead cells.
- 9 The rapid height growth of bamboos is due to secondary growth.
- 10 Conifers are gymnosperms.

II Write short notes on any FIVE:

(5x2=10)

- 1 Why are growth rings also called annual rings?
- 2 What are heterogeneous rays?
- 3 What are the functions of wood in a living tree?
- 4 What are microfibrils?
- 5 What is a complex tissue?
- 6 What is differentiation?
- 7 What are the two components of the bark?

III Answer any FIVE:

(5x4=20)

- 1 Seasonal influence on wood formation.
- 2 Anomalous secondary growth.
- 3 Secondary meristem.
- 4 Juvenile wood
- 5 What are the main differences between gymnosperm and angiosperm woods?
- 6 What is the importance of anatomy in utilization of wood?
- 7 What are tyloses? How do they affect permeability of wood?

IV Write essay on any ONE:

(1x10=10)

- 1 Describe the different types of permanent tissues in a plant body?
- 2 Explain the mechanism of wood formation in a tree?
