



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons) Forestry 2017 Admission
II Semester Final Examination- August 2018

Fopu. 1201

Wood Anatomy (2+1)

Marks: 50
Time:2 hours

I Fill in the Blanks

(10x1=10)

- 1 Wood is theof a tree.
- 2 Primary xylem originates from
- 3 is a living mechanical tissue.
- 4 Water channel proteins that allow water to diffuse more rapidly in vacuoles are known as
- 5 Lateral roots arise from

State True or False

- 6 Cotton fibres are libriform and true fibres.
- 7 Mature sieve tube elements are enucleated living cells.
- 8 Hypodermis of monocot stem is made up of collenchyma.
- 9 Pericycle of roots is formed by sclerenchyma cells.
- 10 Annular and spiral types of thickening are found in protoxylem.

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 Properties of heartwood.
- 2 Importance of wood anatomy.
- 3 Formation of annual rings.
- 4 Tunica corpus theory.
- 5 Vascular bundles of monocot stem .
- 6 Functions of microtubules.
- 7 Types of perforation plate.

III Answer any FIVE of the following.

(5x4=20)

- 1 Explain the structure and function of phloem.
- 2 How does transformation of sapwood to heartwood take place? Describe.
- 3 Macroscopic feature of wood.
- 4 How does primary growth take place in a Dicot stem? Explain.
- 5 Vascular tissue system of dicotyledonous stem.
- 6 Types of vascular bundle in plants.
- 7 Types of paratracheal axial parenchyma.

IV Write an essay on any ONE of the following

(1x10=10)

- 1 Different types of abnormalities in wood.
- 2 Mechanism of wood formation in Dicot root.
