



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons) Forestry 2018 Admission
II Semester Final Examination- August 2019

Fopu.1201

Wood Anatomy (2+1)

Marks: 50
Time: 2 hours
(10x1=10)

I Fill in the Blanks

- 1 Succulent parenchyma is found in plants
- 2 Parenchyma tissues take part in photosynthesis i.e.
- 3 Radial vascular bundles are mainly found in.....
- 4 The narrow peripheral functional part of the secondary xylem is called
- 5 deals with the internal structure of wood including wood formation and wood properties.

Match the following

- | | |
|----------------|-------------------------------------------------------------|
| 6 Grain | A Size, proportion and distribution of various wood element |
| 7 Texture | B Bijasal |
| 8 Ripple mark | C Direction/Alignment of cell |
| 9 Tyloses | D Gymnosperm |
| 10 Resin canal | E Angiosperm |

II Write short notes on any FIVE of the following

(5x2=10)

- 1 Secondary growth.
- 2 Reaction wood.
- 3 Growth ring.
- 4 Resin canal.
- 5 Spring wood.
- 6 Tyloses.
- 7 Wood rays.

III Answer any FIVE of the following.

(5x4=20)

- 1 Differentiate the softwood and hardwood..
- 2 Wood formation and its significance.
- 3 Differentiate the heartwood and sapwood.
- 4 Meristem tissue and its function.
- 5 Explain the ring porous and diffuse porous wood with examples.
- 6 Parenchyma and its classification.
- 7 Vascular bundle and its classification

IV Answer any ONE of the following

(1x10=10)

- 1 Anatomical features of any four timber yielding tree species of Kerala region.
- 2 Differentiate the monocot and dicot stem with labeled diagram.
