



Uva Wellassa University, Sri Lanka
1st Semester Examination Feb/March 2012
SCT 347-2 Wood and Wood based Product Development Techniques
Time: two (02) hours

Answer four (04) questions only
All questions carry equal marks

- 1) Explain the followings.
 - a) Transverse surface, Radial longitudinal surface and Tangential longitudinal surface of timber are important to identify timber species.
 - b) Explain how timber density is determined.
 - c) Explain the difference between Fiber Saturation Point (FSP) of wood and Equilibrium Moisture Content (EMC) of wood. (25 marks)

- 2) Write short notes on the followings.
 - a) Free water and bound water in wood cell
 - b) Wood grain, wood figure and wood texture
 - c) Hard wood and soft wood
 - d) Characteristics of wood preservatives or timber seasoning defects. (25 marks)

- 3) Suppose that you have been nominated as a consultant to prepare timber identification key for Sri Lankan Timber species. What anatomical properties of wood do you study? Explain with diagrams. (25 marks)

- 4) Write an essay on Timber Preservation. (25 marks)

- 5) When moisture content of timber is determined by moisture meter and oven dry method.
 - a) What are the advantage and disadvantage of both methods?
 - b) Explain how radial longitudinal surface of hard wood is differentiated from tangential longitudinal surface of hard wood.
 - c) List out the advantages of seasoning of timber. (25 marks)