

Puu-28.3015 Sawmilling and Sawnwood Products

Examination 15th December 2010

Answer all questions. 8 marks for each question

1. Write short (1-2 lines) answers to the following, using diagrams or illustrations where appropriate:
 - I. List the main steps in the manufacture of sawnwood.
 - II. Explain how X-ray technology is used in sawmilling.
 - III. Explain what is meant by "collapse" in wood drying.
 - IV. Give at least two (2) examples of the role of wood in reducing CO₂ emissions.
2. Write a short essay (1 page max.) about the multistage production planning of a sawmill.
3. List and describe different features of drying quality and explain, giving 3 examples, where poor quality may be a problem in certain applications.
4. List and describe different features that need to be considered when choosing a strength grading system to a sawmill.
5. Write a short essay (1-2 pages) describing how value adding can be achieved from a producer's perspective (*Note: you might like to base your answer on one of the 'case studies' presented by Duncan Mayes (Stora Enso Timber) in his lecture*)

- internal financial gain
- external " " " "
- Low environmental impact
- Life cycle time
- Brand image
- Intellectual property