



**Uva Wellassa University, Sri Lanka**  
**Btech. Science and Technology**  
**End Semester Examination- Semester 1**  
**December -2008**

**BIO 327-2 Wood and Wood based products Development and Techniques**

Index number:.....

**Answer 5 (Five) questions**

**Time: 2 Hours**

1. Discuss the importance of using wood at the proper moisture content  
(20 marks)
  
2. Write short note on the followings
  - a) Density of timber varies with the moisture content
  - b) Parenchyma can be used in the identification of hardwood timber
  - c) Proper stacking will reduce drying defects
 (20 marks)
  
3. a). Explain the methods that are used to evaluate the natural durability of timber  
 b). Evaluate the suitability of diffusion treatment and full cell process in the treatment of pine timber in Sri Lanka  
(20 marks)
  
4. Explain the relationship between stress, strain and Modulus of Elasticity (MOE)  
(20 marks)
  
5. a). What is meant by timber quality?  
 b). How might proper silvicultural practices differ the quality of the timber  
(20 marks)
  
6. Imagine that you have been appointed as a consultant for development of wood based industries in Sri Lanka. Explain the present technological status of sawmilling and plywood industries and explain what improvements you would suggest to upgrade these two industries in Sri Lanka.  
(20 marks)

