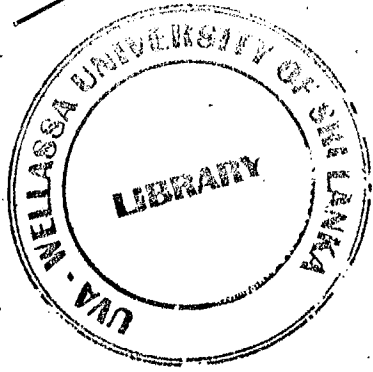


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Uva Wellassa University  
Faculty of Animal Science & Export Agriculture  
BSc in Palm & Latex Technology & Value Addition



End Semester Examination – February/March 2012  
Year II Semester I

Engineering Principles in Palm & Latex Industry (PLT 231-2)

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**PART III - Essay**

**Question 01**

I. Write short notes on:

- a) Dynamic viscosity (05 marks)
- b) Critical Reynold's Number (05 marks)
- c) Bernoulli's theorem of energy conservation of fluids (10 marks)

II. A dryer is used to dry 450 kg of rubber from 50% moisture to 10% moisture.

**Estimate;**

- a) Amount of water removed during drying (10 marks)
- b) Heat requirement of the dryer, if the latent heat of evaporation is 2257kJ/kg. (05 marks)
- c) Efficiency of the dryer, if 250 kg of steam is used for drying & latent heat of steam is 2283 kJ/kg (05 marks)