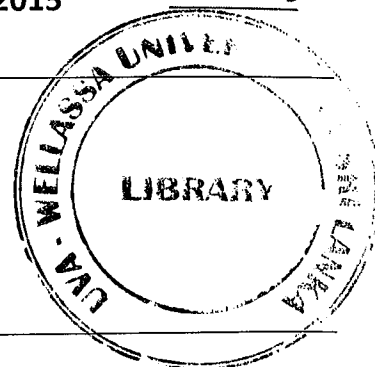
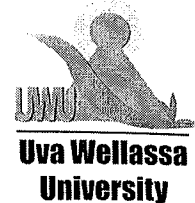


**Uva Wellassa University of Sri Lanka**  
**Faculty of Science and Technology**  
**Department of Science and Technology**  
**300 level 2<sup>nd</sup> semester Examination – Sept./Oct. 2015**  
**SCT 425 -2 Biomass Conversion**



**Instructions to candidates**

Duration: 02 hours

Number of questions: Four (4) essay questions

Answer all questions

Mark allocation: 100

1.
  - a. What are the advantages and disadvantages of using biomass as a energy source in terms of environment?
  - b. Discuss the importance of structure and composition of biomass in the biofuel production.

(25 mark)
2.
  - a. Discuss potetial secondary biomass with suitable examples.
  - b. Examine major obstacles in introducing biomass as a source of fuel.

(25 mark)
3.
  - a. Examine the key features for the effective pretreatment of lignocellulosic biomass.
  - b. List desired properties of ideal energy crops.

(25 mark)
4. Briefly discuss the following
  - a. Cumbussion
  - b. Tran-sesterification
  - c. Bioethanol Production
  - d. Biochar

(25 mark)