



Uva Wellassa University  
Faculty of Animal Science & Export Agriculture



BSc in Palm and Latex Technology and Value Addition  
End Semester Examination September / October 2012

Year III Semester II  
Coconut Processing Technology II (PLT 342-2)

**Instructions**

Answer all the questions

No. of questions : Two (02)  
No. of pages : Two (02)  
Time : One hour (01 hr)  
Total marks allocated : 60%

Index No:

**PART III - Essay**

**Question 01**

**(50 marks)**

- i. Briefly describe the process chemistry of coconut shell charcoal production.
- ii. Briefly describe the raw material selection process for coconut shell charcoal production.
- iii. Name five methods of charcoal production.
- iv. Charcoal is produced using transportable metal kilns. Write a short description about the transportable metal kiln.
- v. Another method of charcoal production is using charcoal kilns built with locally manufactured bricks. Describe the lighting procedure of the charcoal kilns built with locally manufactured bricks.

**Question 02**

**(50 marks)**

Activated carbon is carbon produced from carbonaceous source materials such as nut shells, peat, wood, coir, lignite, coal and petroleum pitch. It can be produced by physical activation or chemical activation.

- i. Write short notes about physical activation and chemical activation.
- ii. Name three chemicals mainly used in chemical activation process in the production of activated carbon.
- iii. Write down five machineries used in activated carbon production process.
- iv. What are the five applications of activated carbon?