



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



**End Semester Examination – Feb/March 2012**  
**Year II Semester I**

**Water Management Technology (PLT 232-2 / PLT 242-2)**

---

**PART III – Essay**

**Question 01**

- I. Critically discuss the suitability of using surface irrigation methods in coconut lands. (10 marks)
- II. Write an essay on “Prevention of water logging condition in low lying rubber lands”. (10 marks)

**Question 02**

- I. Briefly discuss the parameters use for a successful irrigation scheduling. (08 marks)
- II. A rubber field in dry zone is going to be irrigated by taking water from a nearby irrigation canal. Following data have been obtained during a study conducted in that field.
  - stream diverted from a canal - 95 l/s
  - stream delivered to the field - 72 l/s
  - runoff in the field - 350 m<sup>3</sup>
  - deep percolation in the field - 158 m<sup>3</sup>
  - irrigation period - 8 hours

**Estimate,**

- I. Water conveyance efficiency (03 marks)
- II. Amount of water applied to the field through irrigation in m<sup>3</sup> (03 marks)
- III. Amount of water stored in the field during irrigation in m<sup>3</sup> (03 marks)
- IV. Field water application efficiency (03 marks)