



**Uva Wellassa University**  
**BSc in Palm & Latex Technology & Value Addition**

**End Semester Examination – August/September 2011**  
**Year 2 Semester II**

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



**Instructions**

Answer **all** questions

No. of questions : Four (04)

No. of pages : Six (06)

Time : One hour & fifteen minutes

Total marks allocated : 60%

**Index No:**

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### Part III – Essay

#### Question 01

- I. Briefly discuss the ideal wetting pattern & the reasons for the occurrence of poor wetting patterns in the furrow method of irrigation. (10 marks)
- II. Briefly discuss the four phases of the process of surface irrigation. (10 marks)
- III. “A proper drainage system is a vital component in an effective irrigation system”.  
Comment on this. (10 marks)

#### Question 02

- I. Write an essay on, “The water conservation methods adopted in both Rubber & Coconut Plantations in Sri Lanka”. (10 marks)
- II. The data obtained during a can experiment (using 24 cans) are as follows.

Can No.	Collected water (cm)	Can No.	Collected water (cm)
1	10.5	13	10.0
2	11.0	14	11.5
3	12.5	15	12.0
4	9.0	16	9.5
5	10.5	17	10.0
6	8.0	18	8.5
7	10.0	19	10.5
8	9.5	20	9.5
9	8.0	21	8.5
10	7.0	22	7.0
11	11.5	23	11.0
12	10.5	24	10.0

Calculate,

- a) Pattern Efficiency (10 marks)
- b) Uniformity co-efficient (10 marks)