

**Uva Wellassa University
B.Sc. in Export Agriculture
Bachelor of Animal Science**



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

**Uva Wellassa
University**

Principles of Agricultural Engineering Technology (EAG 141-1/0)

Instructions

Answer **all** questions

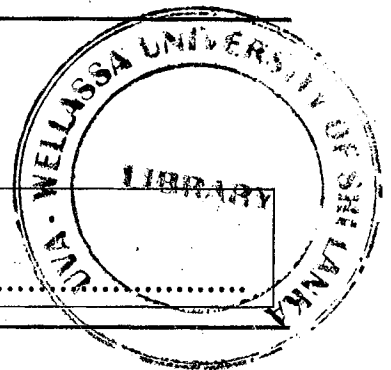
No. of questions : Fifteen(15)

No. of pages : Four (04)

Time : 30 minutes

Total marks allocated : 30%

Index No:
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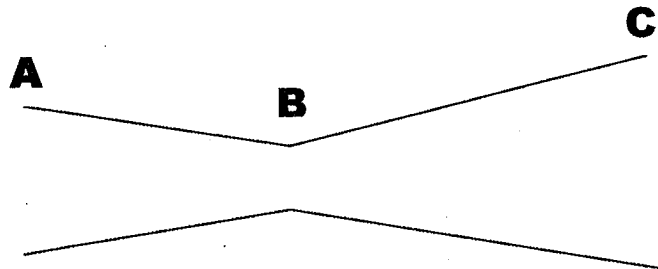


(09)

PART III - Essay

Question 01

- I. Write short notes on, (10 marks)
- a. Specific Weight
 - b. Reynold's Number
- II. Following diagram shows a shape of a pipe used to pass the liquid in a processing plant. The diameter of the pipe at point A is **1000mm** & the liquid enters with a rate of **10m/s** from the point A. The diameter of the pipe at point B & C are **500mm** & **2000mm** respectively.



Find,

- a. The **flow velocity** at point B. (10 marks)
 - b. The **flow discharge** at point C. (10 marks)
- III. Given below is a sketch of a Manometer having $h_1 = 200\text{mm}$ & $h_2 = 50\text{mm}$. If the density of Mercury is 13600kg/m^3 , calculate the gauge pressure (neglecting the atmospheric pressure) at the point A of the system. (10 marks)

