

Bachelor of Animal Science

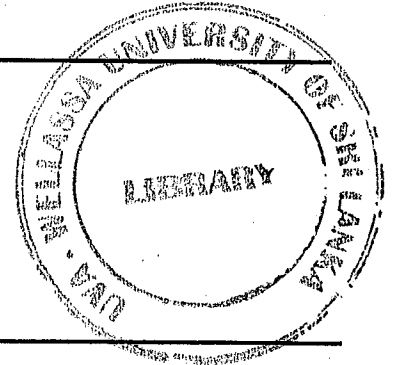
First Year Second Semester Examination – December 2016/January 2017

Principles of Agricultural Engineering Technology (EAG 141- 0)
Section II – Essay Questions

Instructions

Answer all questions in the given booklet.

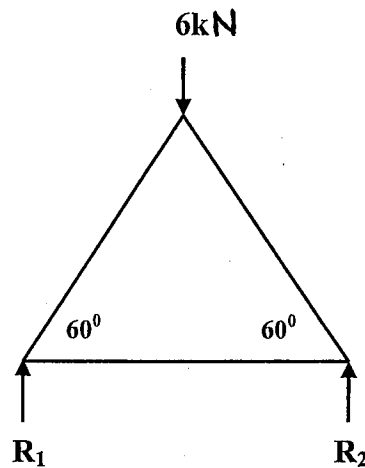
No. of questions : Two (02)
No. of pages : Two (02)
Time : Thirty (30) minutes
Total marks allocated : 50%



01. (I) Write short notes on the following,

- a. Equations of Motion (10 marks)
- b. Free Body Diagram (05 marks)

(II) Given below is a simple truss which is in equilibrium with the forces acting on it.



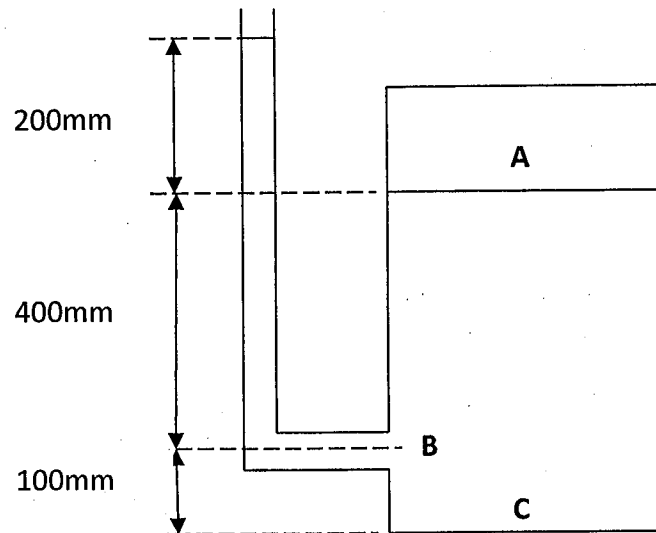
Calculate,

- a. R_1 and R_2 reaction Forces. (04 marks)
- b. Internal member forces at each joint (06 marks)

02. (I) Briefly discuss the pressure of a fluid with suitable sketches. (05 marks)

(II) Briefly discuss different ways of measuring pressure of fluids with suitable sketches. (10 marks)

(III) Calculate pressure (in Pa) values at point A, B and C of following piezometer filled with Glycerin having mass gravity of 1260 kg/m^3 at 25°C . (10 marks)



[End of Section II]

