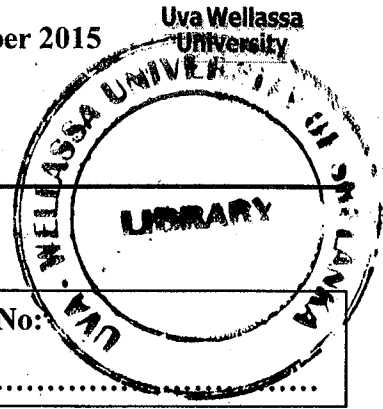


Uva Wellassa University  
Faculty of Animal Science and Export Agriculture  
BSc in Export Agriculture



End Semester Examination – September/October 2015  
Year III Semester I

Hydrology (EAG 348 -0)



**Instructions**

Answer all questions

No. of questions : Two (02)

No. of pages : Two (02)

Time : One (01) Hour

Marks allocated : 100 %

**Essay**

**Question 01**

Write short notes.

(50 marks)

- 1.1. Runoff
- 1.2. Unit Hydrograph
- 1.3. Double Mass Curve
- 1.4. Time of Concentration
- 1.5. Rational method of runoff estimation

**Question 02**

2.1. Briefly discuss factors affecting run-off generation in catchments. (20 marks)

2.2. A catchment has six rain gauge stations A, B, C, D, E and F. Normal monthly rainfall at all stations and observed rainfall at A, B, D, E and F are given in following table.

Station	Normal monthly rainfall (mm)	Observed event rainfall (mm)	Distance from Station C (km)
A	125	105	15
B	135	120	23
C	108	-	-
D	234	146	18
E	278	152	12
F	167	140	16

Find the missing rainfall at station C using;

(30 marks)

- a) Arithmetic mean method
- b) Normal ratio method
- c) Inverse distance squared method