

Uva Wellassa University  
Faculty of Animal Science & Export Agriculture  
B.Sc. in Export Agriculture



End Semester Examination February / March 2012  
Year III Semester I

Basic Genetics EAG 311-2 Repeat

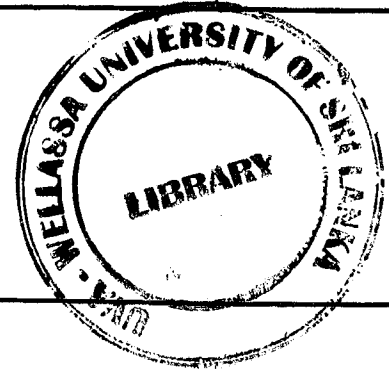
**Instructions**

Answer all questions

No. of questions : Two (02)

No. of pages : One (01)

Total marks allocated : 50%



**Part III - Essay**

**Question 1**

1. In a crop variety, a student observed that fruit has continuous variation in its size. With further analysis, he concluded that fruit size is a quantitative trait. Now, the student wants to analyze how the natural selection applies on this trait. If you are asked to explain application of natural selection on fruit size, how do you describe different ways of natural selection that can be applied on a quantitative trait like fruit size?

(25Marks)

**Question 2**

1. What is heritability?
2. Discuss the use of heritability estimates in animal and plant breeding.

(25 Marks)