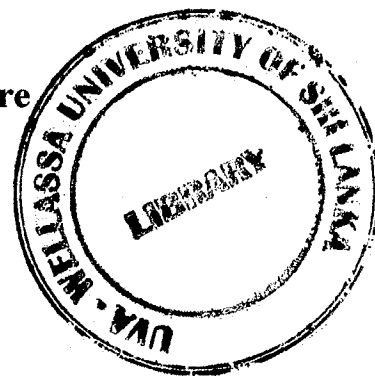




B.Sc in Export Agriculture
Faculty of Animal Science & Export Agriculture
Uva Wellassa University



Year III Semester I
End Semester Examination – Dec 08
Basic Genetics (EAG 311- 2)
Part 2

2008

Instructions:**Answer all questions**

No. of questions : Two (02)
 No. of pages : Two (01)
 Time : One hour (1 hour)
 Total marks allocated : 60%

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- 1.) 1. Consider a population in Hardy Weinberg equilibrium in which initial frequency of allele A is 0.7 and the frequency of allele a is 0.3. After one generation of random mating, calculate the (a) allele frequencies and (b) genotype frequencies.
2. (a) Define heritability
- (b) What are the two kinds of heritability estimates?
- (c) Discuss the use of heritability estimates in animal and plant breeding
- 2.) 1. Discuss on propagation, genetic diversity and conservation methods of any two of the following spice crops grown in Sri Lanka.
- a. Cinnomon b. Cloves c. Pepper
- d. Vannilla e. Ginger
2. Explain the role of germplasm conservation in value addition to spice crops.