Eastern University, Sri Lanka Third year First Semester Examination in Agriculture 2005/2006 (External Degree) (February/March/April 2011)

AGB 3102 Crop Breeding and Techniques

Answer All Questions.

Time: 02 Hours

- Q1. Rust resistance is controlled by a pair of recessive alleles (rr) in ground nut. This resistance should be introduced into a cultivated variety of ground nut that is susceptible to rust disease.

 Describe the breeding method for this.
- Q2. Write an account on each of the following:
 - a) Different ways contributing to the evaluation of crop plants
 - b) Basic genetic resources and their contribution to plant breeding.
- Q3. Describe
 - a) Recurrent selection to increase the seed oil content in maize.
 - b) Procedure to screen crop varieties against soil- borne pathagens.
- Q4. Briefly explain
 - a) Heritability and its significance
 - b) Genetic male sterility and its importance
 - c) Aclimatization of crop varieties.