

EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE-2010/2011(REPEAT)

AGB 3102: CROP BREEDING AND TECHNIQUE

Answer **all** questions.

Time: **02** hours

- Q₁ Explain the following
- Heritability and its importance in plant breeding
 - Genetic male sterility and maintenance
 - Incompatibility in crops
- Q₂ Discuss the pedigree method of selection to develop a variety in self-pollinating crop and how bulk selection method differs from it.
- Q₃ Describe the following:
- Recurrent selection method to improve oil content in maize.
 - Screening of crop varieties for foliage diseases.
- Q₄ Write short notes on:
- Donor and recurrent parents
 - Basic genetic resources
 - Acclimatization
