

EASTERN UNIVERSITY, SRI LANKA

11 OCT 2014

IRD 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

- a) Heritability and its importance in plant breeding
- b) Genetic male sterility and maintenance
- c) 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:

- a) Recurrent selection method to improve oil content in maize.
- b) Screening of crop varieties for foliage diseases.

Q₄. Write short notes on:

- a) Donor and recurrent parents
- b) Basic genetic resources
- c) Acclimatization
