

**EASTERN UNIVERSITY , SRI LANKA**  
**FACULTY OF AGRICULTURE**

**Final Year First Semester Examination in Agriculture 2005/2006**

**AGB 4102 Advanced Plant Breeding**

**Answer All questions**

**Time: 01 hour**

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1. a) What are the features of different populations resulted from plant breeding programme? And show how they are derived
  - b) Define the types of heterosis and how are they measured?
  - c) Describe the criteria by which the parents are chosen in a breeding programme.
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2. Discuss
    - a) Prediction of double cross performance from single cross data in cross pollinated crops.
    - b) A scheme of multiple convergent crosses in self pollinated crops