

**Eastern University, Sri Lanka**  
**Faculty of Agriculture**  
**Third Year First Semester Examination**  
**AB 3101 - Crop Improvement Technology**  
**Repeat Examination**

**Answer all questions**

**Time: 01 hour**

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1. Discuss the following;
  - a) Pattern of evaluation in cultivated crop species (50 marks)
  - b) Development of hybrid varieties in maize (*Zea mays*) (50 marks)
  
2. Explain
  - a) Heritability and its importance in plant breeding (30 marks)
  - b) Genetic male sterility and its maintenance (30 marks)
  - c) Basic genetic resources (40 marks)