

EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2006/2007

AGB 3102: CROP BREEDING AND TECHNIQUES



Time: 2 hours

Answer all questions

1. Describe the pureline selection method applied to improve an old rice variety and compare it with mass selection method. (100 marks)
2. a) Give the concept of population improvement. (25 marks)
b) Describe the procedure adopted to improve the oil content in maize. (75 marks)
3. Explain the following in detail
 - a. Screening varieties against leaf rust disease in groundnut. (50 marks)
 - b. Genetic male sterility and its maintenance. (50 marks)
4. Write short notes on
 - a. Heritability of characters and their significance. (30 marks)
 - b. Donor and recurrent parents. (30 marks)
 - c. Basic genetic resources. (40 marks)

Explain the following.....

- a) Marxian theory of Economic Development
- b) Approaches to measure the distribution of National Income
- c) Rostow's Stages of Growth
- d) Vicious Circle of Poverty

a) Discuss briefly the social and economic implications of Land colonization and settlement in Sri Lanka.

b) Briefly discuss the major objectives of implementing Land Reforms in Sri Lanka.

c) What were the motivations for implementing Land Reforms in Sri Lanka?