

(2)



EASTERN UNIVERSITY, SRILANKA

Final (Fourth) year / First semester Examination in Agriculture 2003 / 2004

AGB 4103 Advanced Plant Breeding

Time: 01 hour

Answer all questions

1. Describe the following
 - a. Different populations resulted from plant breeding and how they are derived. (40 marks)
 - b. Mating systems in self – pollinated crops. (30 marks)
 - c. Type of heterosis and their measurements. (30 marks)

2. a) Briefly describe the strategies that would be adopted in rice improvement programme to increase the yield potential of varieties and to reduce the yield gap under farmer's conditions in Sri Lanka. (50 marks)

- b) Explain the steps involved in emasculation and crossing techniques to produce hybrid seeds of tomatoes on commercial scale. (50 marks)