



EASTERN UNIVERSITY, SRI LANKA
THIRD YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE-2008/2009
(SEPTEMBER/OCTOBER 2009)
AGB 3102: CROP BREEDING AND TECHNIQUES

Time: 02 hours

Answer ALL questions

1. a. Describe the pedigree selection method to develop an improved variety of rice. (75 marks)
 - b. How does bulk method of selection differ from this method? (25 marks)

 2. a. Discuss the procedure adopted to develop a hybrid variety of maize. (75marks)
 - b. What are the advantages of male sterility in this process? (25 marks)

 3. a. What are principles involved in breeding for disease resistance. (40marks)
 - b. Explain how crop varieties are screened against a disease caused by soil borne pathogen. (60marks)

 4. Write short notes on the following:
 - a. Genetic male sterility and its importance (30marks)
 - b. Heritability and its uses (30marks)
 - c. Basic genetic resources (40marks)
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