

EASTERN UNIVERSITY, SRI LANKA



FOURTH YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2007/2008

AGB 4102: ADVANCED PLANT BREEDING

Time: 01 hours

Answer all questions.

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1. Describe the essential features of the following.
  - a. Pure line theory proposed by Johansen (30 marks)
  - b. Reciprocal recurrent selection in cross pollinated crops. (30 marks)
  - c. Multiple convergent cross in self-pollinated crops. (40 marks)
  
2. Discuss the following
  - a. Adaptability and stability of crop cultivars. (30 marks)
  - b. The contribution of season and disease resistance to biomass production and partitioning in a crop. (30 marks)
  - c. The steps followed in hybrid seed production in rice. (40 marks)

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3. Write a composition on any one of the following topics. Use 250 - 300 words.

- a) How does English language influence your development program in your academic course?
- b) Assume that you are the chairman for an "Agricultural Development Organization" and you are invited for a national conference to deliver a speech. Briefly write down the speech that you would make at the conference.
- c) Write an article on "Farmer's Problem" to the AGRIBANT magazine published by your faculty.
- d) Write an article on "Global Warming" in a newspaper.