

Eastern University, Sri Lanka

External Degree Programme in Agriculture

Second Year, Second Semester Examination in Agriculture-2006/2007

(May/June 2012)

CSC 2202: Crop Physiology

Answer all questions

Time: Two hours

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1. Explain the factors affecting the yield components in rice (*Oryza sativa* L.)

2. Briefly explain the following:

- a. Factors limiting photosynthetic rate in potato (*Solanum tuberosum* L.)
- b. Factors affecting tuber formation in sweet potato (*Ipomea batatas* L.)



3. Briefly discuss the following:

- a. Different phases of grain filling period in maize (*Zea mays* L.).
- b. Effects of environmental conditions on boll shedding in cotton (*Gossypium* sp)

4. Write short notes on the following:

- a. Effect of calcium on groundnut (*Arachis hypogea* L.) yield
  - b. Influence of nutrition and plant population on tobacco (*Nicotiana tabacum* L.) leaf quality
  - c. Factors influence low yield in grain legumes
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