



EASTERN UNIVERSITY, SRI LANKA.

FIRST YEAR/FIRST SEMESTER EXAMINATION IN AGRICULTURE

CSC-1101 – PRINCIPLES OF AGRONOMY

Answer All Questions

Time : 03 hours

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- 1 a. Define the term "Minimum Tillage".  
b. List the different types of crop establishment in rice.  
c. Give the advantages and disadvantages of the methods you have mentioned in (b).  
d. What is meant by (1) Topping  
(2) Hardening in nursery plants.
- 2 a. Briefly discuss the different stages of composting and indicate the importance of different materials used.  
b. List the disadvantages of using green manures.  
c. How are biofertilizers classified?  
d. Briefly discuss the effect of plant population on yield.
- 3 a. Briefly discuss the agronomic methods of weed control.  
b. Indicate how would you increase the efficiency of soil applied herbicides.  
c. List the constraints in the application of biological weed control.
- 4 a. Differentiate between weather and climate.  
b. Characterize the two main monsoonal seasons in Sri Lanka.  
c. Give the basis for classification of Sri Lanka into different agro-ecological regions.  
d. List the effects of light on plant growth and development.

5 a. List the importance of growth analysis.

b. Briefly discuss the following with examples.

1. Net Assimilation Rate (NAR)
2. Leaf Area Index (LAI)
3. Crop Growth Rate (CGR).

6. Write short notes on the following

- a. Methods of fertilizer application
- b. Lee-luff effect
- c. Soil renovation.

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