



UNIVERSITY OF RUHUNA

Faculty of Agriculture

**First Examination in BSc Agricultural Resource Management & Technology, BSc
Agribusiness Management and BSc Green Technology**

(Part- I) – June 2022

Theory Paper

Principles of Agronomy (CS1101)

Answer all questions (3)

Time: 1 ½ Hours

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1. (a) What is meant by Agronomy? (15 marks)
(b) How do ensure maximum utilization of solar radiation through the interception? (25 marks)
(c) What are the soil physical characters that influence crop growth and development? (25 marks)
(d) Briefly explain the factors affecting rooting of a cutting (35 marks)
2. (a) Write a brief account on rainfall of Sri Lanka (20 marks)
(b) What measures could be taken to minimize soil erosion by wind and water? (20 marks)
(c) What are the important factors to be considered when selecting a crop for a particular land? (25 marks)
(d) Briefly discuss the possible reasons associated with the lower yields recorded in some arable lands in Sri Lanka (35 marks)
3. (a) Distinguish plant growth and development (20 marks)
(b) Identify different phases of plant growth using a graph (20 marks)
(c) What are the factors affecting nutrient uptake by plants? (25 marks)
(d) How do you propose to improve nutrient utilization efficiency of crop plants? (35 marks)