



**UNIVERSITY OF RUHUNA**

**Faculty of Agriculture**

**First Examination in BSc Agricultural Resource Management & Technology, BSc**

**Agribusiness Management and BSc Green Technology**

**(Part I)– May/June 2023**

**Theory Paper**

**Principles of Agronomy (CS11201)**

**Answer all three (3) questions**

**Time: 1 ½ Hours**

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1. (a) List the soil environmental factors that influence on crop growth and development (10 marks)  
(b) Briefly explain the internal factors affecting on rooting of a cutting (25 marks)  
(c) Briefly discuss the objectives of pruning and training in horticultural crops (30 marks)  
(d) Distinguish between cropping system and cropping pattern and briefly explain the important requirements to be fulfilled to ensure the success of an intercropping system (35 marks)
2. (a) What do you mean by land development in agriculture? (20 marks)  
(b) What are the objectives of tillage? (20 marks)  
(c) Describe the characteristics of marginal lands (25 marks)  
(d) Explain the beneficial effects of ploughing to the growth and development of a crop (35 marks)
3. (a) Briefly explain importance of balanced fertilization of crops (20 marks)  
(b) “Chemical fertilizer feeds the plant while organic fertilizer feeds the soil”. Comment on the statement (30 marks)  
(c) Define “plant hormones” while listing the uses of plant hormones in agriculture (20 marks)  
(d) Briefly describe plant growth and development (30 marks)