



UNIVERSITY OF RUHUNA

Faculty of Agriculture

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

(Part II) – May/June 2023

Theory Paper

Agroecology (CS21201)

Answer all questions (3)

Time: 1 ½ Hours

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- 1.(i) List out main differences between Natural Ecosystem and Agroecosystem (10 marks)
- (ii) What are the five characteristics of a system? (20 marks)
- (iii) “Problems associated with the agriculture and natural resources management is complex”.
Briefly discuss the possible reasons for an identified problem using a mind map (30 marks)
- (iv) “Utilization of natural resources is efficient in ecosystems than the Agroecosystems”.
Explain the statement (40 marks)
2. Briefly discuss the followings
- (i) Agroecosystem (25 marks)
- (ii) Use of natural enemies to control pests in the agroecosystems (25 marks)
- (iii) Crop rotation in agriculture (25 marks)
- (iv) Beneficial biological interactions in the agroecosystems (25 marks)
- 3.(i) What do you mean by organic agriculture? (10 marks)
- (ii) What are the issues associated with organic agriculture in Sri Lanka? (20 marks)
- (iii) Briefly discuss the impact of imposed ban of importation of synthetic fertilizers on crop
production in Sri Lanka (30 marks)
- (iv) Develop a sustainable model for the Agriculture Faculty farm of University of Ruhuna, using
locally available resources (40 marks)