UNIVERSITY OF RUHUNA

28 DEC 2021

First Examination in BSc Agricultural Resource Management & Technology

(Part- II) -November 2017

Agroecology & Sustainable Agriculture (CS1201) - Theory

Answer all questions (4)	Time: 2 Hours
1.(i) What is an Agroecosystem?	(10 marks)
(ii) List out the abiotic and biotic factors of the Agroecosystem	(20 marks)
(iii) Explain main characteristics of a system by using an appropriate example	(30 marks)
(iv) "Yield reduction of the paddy farming systems in Sri Lanka is a complex pr	roblem". Draw the
"Mind Map" to identify possible reasons for the problem and their relations.	
2.(i) What are the principles of Agroecology?	(20 marks)
(ii) Briefly discuss the followings	
(a) Agroecosystem features	(20 marks)
(b) Interactions among plants and animals in the ecosystem/agroecosystem	(30 marks)
(c) Importance of sustainability in farming systems	(30 marks)
3.(i) What are the main factors used in designing a sustainable Agroecosystem/farr	ming system?
	(10 marks)
(ii) List out the advantages of having high diversity in a farming system.	(20 marks)
(iii) Explain the various strategies used in restoring diversity of the agricultural st	ystems.(30 marks)
(iv) Using locally available resources develop a sustainable model for the Faculty	y farm to ensure
more profit.	(40 marks)

- 4.(i) List out main issues associated with organic farming sector in Sri Lanka. (10 marks)
 - (ii) Briefly explain the importance of having certification program in Sri Lanka for organic products
 (20 marks)
 - (iii) "Awareness of the concept of organic farming among producers and consumers are poor in Sri Lanka". Comment on the statement. (30 marks)
- (iv) Develop an action plan to strengthen the awareness of the people on organic farming concept within 5 year period. (40 marks)