AGRI 813

CHUKA





UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF MASTER OF SCIENCE IN AGRONOMY

AGRI 813: CROPPING SYSTEMS

STREAMS: MSC (AGRO)

TIME: 3 HOURS

[15

DAY/DATE: THURSDAY 05/12/2019	2.30 P.M. – 5.30 P.M.
INSTRUCTIONS:	

SECTION A (20 MARKS) – ANSWER ALL QUESTIONS

1.	Giving	g examples describe complementary interaction in plants.	[4 marks]
2.	Explain why tropical environments are considered most productive in comparison to		
	tempe	rate environments and give two reasons why yields are however low.	[5 marks]
3.	Explain any five limitations of alley cropping system. [5 marks]		
4.	Describe the three pillars of modern scientific cropping that are currently used to increase		
	crop p	roduction.	[6 marks]
SECTION B (40 MARKS) – ANSWER ANY TWO QUESTIONS			
5.	(a)	Discuss how traditional shifting cultivation system can be improved for better	
		productivity and sustainability in agriculture.	[8
marks]			
	(b)	Discuss sowing as an agronomic practice in intercropping.	[12 marks]
6.	(a)	(a) Describe the two main social-economic reasons for the adoption of multiple	
		cropping systems.	[5
marks]			
	(b) Explain the concept of solar radiation as an interaction in an intercropping system		

marks]

and give crop examples.

AGRI 813 Discuss humid climates and agro-forestry as a farming system for continuous cropping. 7.

marks]

[20
