

MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE WITH INFORMATION TECHNOLOGY (MAIN CAMPUS)

NES 211: AGROFORESTRY SYSTEMS

Date: 22nd July, 2013

Time: 2.30 - 4.30 p.m.

INSTRUCTIONS:

Answer Question ONE and any other TWO questions.

 a) Distinguish between: 	
 Spatial and rotational systems. 	[4 marks]
ii) Productive and protective functions of agroforestry.	[4 marks]
b) Explain the criteria to be satisfied for a land use to be called	an agroforestry
system.	[8 marks]
c) Describe the benefits of riparian buffers in an agricultural land	scape.
	[8 marks]
d) Explain the advantages of using trees and shrubs for production	n in dry areas.
	[6 marks]
Discuss the factors that can influence the adoption of agrofores	try technologies
by small scale farmers in Kenya.	[20 marks]
3. Describe how perennial-crop combination can maintain or impro	ove soil fertility.
	[20 marks]
 a). Explain the THREE types of on-farm trials in agroforestry. 	[6 marks]
b). Describe the problems associated with on-farm trials.	[14 marks]
5. Discuss the socio-economic and environmental conditions	s under which
hedgerow intercropping might prove acceptable to farmers.	[20 marks]
6. Explain the following agroforestry technologies.	
a) Block planting.	[8 marks]
b) Mixed planting.	[6 marks]
c) Strip planting.	[6 marks]