



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

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: 21st April, 2016

Time: 2.30 - 4.30 pm

INSTRUCTIONS:

- Answer question ONE and any other TWO questions.



1. a) Explain how agroforestry systems can be classified on:
 - i. Socio-economic basis. [4 marks]
 - ii. Structural basis. [6 marks]
 - iii. Ecological basis. [4 marks]
 - b) Examine the criteria used to satisfy land use as an agroforestry system. [8 marks]
 - c) Explain how the following agroforestry systems can be combined;
 - i. Managed tree fallows and biomass transfer. [4 marks]
 - ii. Multistrata systems and tree fallows. [4 marks]
 2. Describe the importance of riparian Buffers to environmental conservation. [20 marks]
 3. Explain the following agroforestry systems:
 - i. Perennial-crop combination [10 marks]
 - ii. Hedgerow intercropping [10 marks]
 4. Describe the various types of On-farm agroforestry trials. [20 marks]
 5. Explain the agroforestry technologies under the following:
 - a. Strip planting. [8 marks]
 - b. Block planting. [8 marks]
 - c. Sequential planting. [4 marks]
 6. Discuss factors influencing adoption of agroforestry technologies in Kenya. [20 marks]
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