



## **MASENO UNIVERSITY**

### **UNIVERSITY EXAMINATIONS 2016/2017**

**FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN SOIL SCIENCE AND  
PLANT NUTRITION WITH INFORMATION TECHNOLOGY**

### **MAIN CAMPUS**

### **ASS 406: AGROFORESTRY AND LAND USE**

Date: 25<sup>th</sup> July, 2017

Time: 3.30 - 6.30 pm

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#### **INSTRUCTIONS:**

- Answer ALL questions in SECTION A and any TWO questions in SECTION B.

ASS 406: AGROFORESTRY AND LAND USE

DATE: ...2017

TIME: 3 HOURS

**INSTRUCTIONS:**

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This paper comprises sections A and B.

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Answer ALL questions in section A and any TWO questions in section B.

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**SECTION A: Answer ALL QUESTIONS in this section.**

**QUESTION 1**

- (a) Define the following terms as used in Agroforestry (4 marks)
- (i) Agroforestry
  - (ii) Diagnosis and design technology
- (b) Describe the criteria used in adoption of a good Agroforestry design (6 marks)
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**QUESTION 2**

- (a) Describe the classification of Agroforestry systems based on functions (4 marks)
- (b) Outline the factors that have lead to the acceptance of Agroforestry in Kenya (6 marks)

**QUESTION 3**

- (a) Outline strategies that can be used to minimize fuel wood scarcity (5 marks)
- (b) Outline the effects of trees on soil erosion on a slope of land (5 marks)

**SECTION B: Answer any TWO QUESTIONS in this section**

**QUESTION 4**

- Discuss the relevance of Agroforestry in the following areas: (20marks)
- (i) Food production
  - (ii) Soil and water conservation
  - (iii) Fodder production

**QUESTION 5**

- Discuss the various land use problems in western Kenya and the Agroforestry systems used to address them. (20 marks)

**QUESTION 6**

- (a) Discuss the factors that should be considered when choosing nursery site (10 marks)
- (b) By use of examples describe the various type of tree nursery (10 marks)
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