



**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2014/2015 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL BIOSYSTEMS AND  
MANAGEMENT**

**COURSE CODE: FOR 328**

**COURSE TITLE: AGROFORESTRY**

**DATE: 24<sup>TH</sup> AUGUST, 2015**

**TIME: 2.00 P.M-5.00 P.M**

**INSTRUCTIONS:**

***ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION B.***

**SECTION A: (30 marks)**

1. Describe the four bases for classification of agroforestry systems and explain how they may be related. (6 marks)
2. a) Differentiate between agroforestry systems, agroforestry practices and agroforestry technologies. (3 marks)  
b) Explain what agroforestry components are.
3. Explain why photosynthetic pathways of different species will be an important physiological consideration in the search for “new” species and screening of local species for their agroforestry potential. (6 marks)
4. Explain how improved soil moisture status is achieved in agroforestry systems. (6 marks)
5. Details of an experimental design reflect practical constraints or challenges that occur in any field situation and might mean the design cannot follow guidelines for an “ideal experiment.” Briefly describe a situation that may be encountered in agroforestry. (6 marks)

**SECTION B: (40 marks)**

6. Discuss sustainability as an attribute of agroforestry. (20 marks)
7. Discuss the global employment of windbreaks as an agroforestry practice. (20 marks)
8. Success in achieving the Millennium Development Goals requires overcoming hunger and poverty in thorough, comprehensive and holistic ways. Discuss the programs that the World Agroforestry Centre has in place for Africa and Asia. (20 marks)