# 

# **UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2015/2016 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRO-FORESTRY AND RURAL DEVELOPMENT**

**COURSE CODE: FOR 315**

**COURSE TITLE: FOREST PATHOLOGY**

***DATE: 8TH DECEMBER, 2015* *TIME: 2 P.M- 5 P.M***

**INSTRUCTIONS:**

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

**SECTION A: (30 marks)**

1. Define the following terms: (5 marks)
2. Disease
3. Wood rot
4. Quarantine
5. Epidemiology
6. Pathogen
7. Explain why it is difficult to precisely measure forest disease impacts. (5 marks)
8. State any five types of tree-pathogen interactions. (5 marks)
9. Describe methods of controlling wood deteriorating agents. (5 marks)
10. Briefly describe Koch’s modified procedure for proof of pathogenicity. (5 marks)
11. Briefly outline the various conditions that cause abiotic tree diseases. (5 marks)

**SECTION B: (40 marks)**

**Answer all questions in this section. All questions carry equal marks**

1. Discuss the economic impacts of forest disease. (20 marks)
2. Discuss the importance of mycorrhizae and other growth promoting organisms in natural forest stands. (20 marks)
3. Describe the plant quarantine procedures in Kenya. (20 marks)