

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2015/2016**

**SECOND YEAR FIRST/SECOND SEMESTER EXAMINATION FOR THE**

**DEGREE BACHELOR OF SCIENCE IN BIOTECHNOLOGY**

 **SBT 2414: PRINCIPLES OF PLANT PATHOLOGY**

**DATE: DECEMBER 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

1. a) i) Outline the symptoms associated with plant diseases. [5 marks]

 ii) Explain how different plant pathogens enter plant tissue. [5 marks]

b) Describe how variations in pathogens and host plants

 developes. [5 marks]

c) Explain the following:

1. Phytoalexins [2 marks]
2. Roguing [2 marks]
3. Growth regulators [2 marks]
4. Hypersensitivity [2 marks]
5. Disease severity [2 marks]

d) Outline the main stages involved in fungal pathogen

 cultural identification. [5 marks]

1. Discuss plant disease forecasting. [20 marks]
2. Discuss sanitation as a method of plant disease control. [20 marks]
3. Discuss pathogen defence against the host defence mechanisms. [20 marks]