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**University Examinations 2016/2017**

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE IN CROP PROTECTION, BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES.

**SBT 2420: DIAGNOSIS OF PLANT DISEASES**

**DATE: DECEMBER, 2016 TIME: 2 HOURS**

**INSTRUCTIONS: -** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Explain the meaning of the following terms (4 marks)
2. Pathogen
3. Symptom
4. Explain the criteria used to classify plant diseases (5 marks)
5. Explain the environmental factors that affect the development of disease epidemics (5 marks)
6. List four plant diseases caused by fungi, citing the causal organism (4 marks)
7. Explain the parameters that can be used in the measurement of plant diseases (4 marks)
8. Describe the Koch postulates of pathogenic microorganisms (4 marks)
9. Describe the possible sources of infectious plant disease causing microorganisms. (2 marks)

**QUESTION TWO (20 MARKS)**

Describe in details the stages in the development of infectious plant diseases. (20 marks)

**QUESTION THREE (20 MARKS)**

Discuss the structural defense mechanisms of plants pathogens. (20 marks)

**QUESTION FOUR (20 MARKS)**

Discuss the diagnostic methods of plant disease. (20 marks)