



# **EMBU UNIVERSITY COLLEGE**

**(A Constituent College of the University of Nairobi)**

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**2015/2016 ACADEMIC YEAR**

**SECOND SEMESTER EXAMINATION**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**(RANGE MANAGEMENT)**

**ACP 201: PRINCIPLES OF CROP PROTECTION**

**DATE: APRIL 14, 2016**

**TIME: 08:30-10:30**

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**INSTRUCTIONS:**

**Answer Question ONE and ANY Other TWO Questions**

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**QUESTION ONE**

- a) Explain five abiotic factors that cause plant diseases (5Marks)
- b) Briefly explain the general chemical control methods of plant diseases. (5Marks)
- c) Explain the symptoms of downy mildew disease. (5Marks)
- d) Briefly explain the categories of insect pests according to their abundance and occurrence. (5Marks)
- e) Discuss factors that influence the populations of insect pests in agro-ecosystems in Kenya. (5Marks)
- f) A crop pathologist found field beans infected by a particular disease, explain how he was able to determine the disease. (5Marks)

**QUESTION TWO**

- a) Discuss bean anthracnose disease under the following sub-headings
  - i) Causal agent of the disease (1Mark)
  - ii) Symptoms of the disease (6 Marks)

- iii) Control methods (5 Marks)
- b) Explain four categories of plant diseases according to their occurrence (8 Marks)

### **QUESTION THREE**

- a) Discuss African boll worm under the following sub-headings
- i) Host plants (2 Marks)
  - ii) Damage symptoms (5 Marks)
  - iii) Control methods (5 Marks)
- b) Explain viral diseases in plants under the following sub-headings.
- i) Mode of transmission (5 Marks)
  - ii) Symptoms of the diseases (5 Marks)

### **QUESTION FOUR**

- a) Differentiate between smuts and rusts diseases in crops. (10 Marks)
- b) Describe the symptoms of potato blight disease and its control. (10 Marks)

### **QUESTION FIVE**

- a) Discuss the stages of an infectious crop disease cycle. (12 Marks)
- b) Describe the symptoms of a bacterial disease. (6 Marks)
- c) Outline two control measures of a bacterial disease in crops. (2 Marks)

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