

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATIONS FOR THE AWARD OF DEGREE  
OF BACHELOR OF SCIENCE**

**BOTA 352: PRINCIPLES OF CROP PROTECTION**

**STREAMS: BSC**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 9/12/2014**

**8.30 A.M – 10.30 A.M.**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND TWO  
QUESTIONS IN SECTION B**

**SECTION A: SHORT ANSWER QUESTION – 30 MARKS**

1. Differentiate between the following terms. [5 marks]
  - (a) Occasional and potential pests
  - (b) Tolerant and resistant crop varieties
  - (c) Parasitoids and predators
  - (d) Bacterial cankers and bacterial scab
  - (e) Biotrophs and necrotrophs
2. Highlight five significance of biotechnological advancement in the management of plant pest and diseases. [5 marks]
3. Outline five guidelines to be followed when using pesticides. [5 marks]
4. (a) Identify organisms that cause the following diseases. [2 marks]
  - (i) Panama disease
  - (ii) Coffee rust
- (b) State three characteristics of plant pathogenic fungi [3 marks]

5. (a) List four advantages of integrated pest management. [2 marks]  
(b) Describe three types of organic herbicides. [3 marks]
6. Explain five ways in which pathogens induce plant disease. [5 marks]

**SECTION B: ESSAY (40 MARKS)**

7. Discuss cultural methods of pest management
8. Write an essay on economic importance of weeds
9. Discuss insects in the order Homoptera.
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