

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN HORTICULTURE**

**BOTA 314: HORTICULTURAL CROP PROTECTION**

**STREAMS: BSC HORT**

**TIME:2 HOURS**

**DAY/DATE: TUESDAY 17/12/2024**

**2.30 P.M. –4.30 P.M.**

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**INSTRUCTIONS:**

**ANSWER ALL QUESTION IN SECTION A AND ANY TWO IN SECTION B:**

**SECTION A:**

1a) Distinguish between pest management and pest control

(2Marks)

b) Using relevant examples briefly explain at least three categories of insect pests

(6Marks)

2.) Explain different way in which insect pest can cause indirect damage to horticultural crops

(5Marks)

2b) Discuss various concept to consider when controlling the insect pests especially on horticultural production where the chemicals may be used

(6Marks)

**BOTA 314**

3a.) State different reason for assessing pests dynamics in a horticultural farm  
(4Marks)

4a)What is plant disease diagnosis and why is it important  
(4Marks)

b.) Discuss how mixed farming may be used as principle of avoidance in reducing the incidence and the spread of the plant diseases  
(3Marks)

**Section B**

5a) Briefly discuss the procedure used during the diagnosis of bacterial disease highlighting the main step (8Marks)

b)Write short notes on different parameters used in measuring of plant diseases (12Marks)

6a) Discuss the concept of cross protection as used in plant disease control (8Marks)

b) Discuss different situations that may lead to pests' development in a horticultural farm  
(12Marks).

6a) Write short notes on biological control as a methods of insects pest control (8 Marks)

b) Discuss crown gall as an important plant disease which affect horticultural crop under the following:

- i. Causal agent (2Marks)
- ii. Host range (2Marks)
- iii. Disease cycle/development (4 Marks)
- iv. Symptoms of the disease (4Marks)

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