

CHUKA



UNIVERSITY

**SUPPLEMENTARY/ SPECIAL EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF  
BACHELOR OF SCIENCE IN BIOLOGY AND BACHELOR OF SCIENCE IN  
CHEMISTRY**

**BOTA 251: INTRODUCTION TO PLANT PATHOLOGY**

**STREAMS: BSC (BIO), BSC (CHEM)**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 04/02/2021**

**2.30 PM – 4.30 PM**

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**INSTRUCTIONS:**

- 1. This paper has two sections A and B**
- 2. Section A accounts for 30 marks while Section B accounts for 40 marks**
- 3. Section A is compulsory**
- 4. Answer any two questions in Section B**

**SECTION A**

1. Briefly explain concept of disease in plants (8marks)
2. Explain plant disease, and describe ways in which pathogens cause disease in plants (6marks)
3. Describe steps involved in detecting an unknown disease (8marks)
4. Briefly explain factors to consider when choosing methods for control of plant diseases (8marks)

**SECTION B**

- 5a. Briefly discuss structural defense as used by plants against plant pathogens (10marks)
- b. Discuss effects of pathogens on plant function (10marks)
- 6a. Discuss factors affecting development of epidemics (10marks)

b. Discuss economic importance of plant diseases (8marks)

7a. Discuss survival mechanisms of Fungi (12marks)

b. Describe late blight of potatoes indicating

- a. Causal agent (2marks)
  - b. Host range (2marks)
  - c. Disease development (4marks)
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