

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURAL EDUCATION AND EXTENSION**

BOTA 453: PLANT PATHOLOGY

STREAMS: BSC. AGED (PART-TIME)

TIME: 2 HOURS

DAY/DATE: FRIDAY 08/08/2025

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Any ALL questions in section one and TWO questions in section two

SECTION ONE: (30 Marks) Short answer questions

1. Describe five symptoms associated with plant viral infestation in plants (5 marks)
2. Describe five characteristics of plant pathogenic fungi (5 marks)
3. Outline five cultural management methods for bacterial diseases of plants (5 Marks)
4. Explain five economic impacts of crop diseases on agriculture (5 marks)
5. Explain the criteria of disease diagnosis as postulated by Robert Koch (5 marks)
6. a) Identify the causal agent of bacterial wilt disease of tomato (1 mark)
b) Outline four key symptoms of the disease (2 marks)
c) Suggest two management option of the disease (2 marks)

SECTION TWO: (40 marks) Answer any TWO question from this section

7. Discuss the key stages in the plant disease cycle (20 marks)
8. Discuss the effect of plant disease on plant physiological processes (20 marks)

9. Discuss the disease triangle and its role in plant pathology (20 marks)

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