

BOTA 251

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF
EDUCATION SCIENCE & BACHELOR OF SCIENCE

BOTA 251: INTRODUCTION TO PLANT PATHOLOGY

STREAMS: BOTA Y2

TIME: 2 HOURS

DAY/DATE: MONDAY 20/04/2020

8.30 A.M – 10.30 A.M.

INSTRUCTIONS

- Answer All questions in Section A and any Two in Section B
- Do not write anything on the question paper
- Answer each question on a fresh page.

SECTION A: SHORT ANSWER QUESTIONS [30 MARKS]

1.a) Outline three advantages of IPM as a plant disease management strategy. [3 Marks]

b) Fill the table below with the correct name of the disease or the pathogen. [2 Marks]

Disease	Pathogen
i)	Hemileia vastatrix
ii) Crown gall
iii)	Radopholus similis
iv) Southern bacterial wilt

2. Discuss pathogen survival mechanisms. [5 Marks]

3. Describe the process of isolating bacterial pathogen from a diseased plant material. [5 Marks]

4. Explain five preformed structural defence mechanisms in plant. [5 Marks]

5. Using the disease triangle concept explain the process of disease formation. [5 Marks]
6. Describe five common symptoms associated with virus infection. [5 Marks]

SECTION TWO: ESSAY QUESTIONS [40 MARKS]

7. Discuss methods used by pathogens to penetrate their hosts. [20 Marks]
 8. Describe the life cycle of cyst nematodes. [20 Marks]
 9. Discuss biological methods of disease Management. [20 Marks]
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