

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE AND
BACHELOR OF EDUCATION**

BOTA 251: INTRODUCTORY PLANT PATHOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: FRIDAY 12/04/2019

11. 30 A.M – 1.30 P.M

INSTRUCTIONS

- **Answer all question in section A and two other questions in section B**

SECTION A: ANSWER ALL QUESTIONS

1. (a) Outline the objectives of plant pathology. [2 marks]
(b) Discuss the concept of plant diseases. [3 marks]
2. Discuss using examples the causal agents of plant diseases. [5 marks]
3. (a) Define overwintering [2 marks]
(b) Differentiate between hypertrophy and hypotrophy. [3 marks]
4. Explain using examples the role of environment in the development of plant diseases epidemics. [5 marks]
5. With examples, discuss the morphological symptoms caused by plant pathogens. [5 marks]
6. Briefly describe plant disease assessment. [5 marks]

SECTION B : ANSWER ANY TWO QUESTIONS

7. (a) Discuss the factors that must be present for a plant disease to occur. [5 marks]
(b) Explain the stages of disease development in plants and give examples. [15 marks]
8. A new plant disease was reported infecting bananas leaves in Kisii county. A team of plant pathologists was sent to assess the situation.

(a) Explain how the team would determine if the disease is caused by a fungal pathogen in the laboratory. [5 marks]

(b) Outline measures that can be taken to control and manage the plant disease. [15

marks]

9. Discuss damping off as an important plant disease that affects seedlings worldwide.

[20

marks]
