



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.

Tel: +254 (0)799529958, +254 (0)799529959, +254 (0)712524293

Website: [www.must.ac.ke](http://www.must.ac.ke) Email: [info@must.ac.ke](mailto:info@must.ac.ke)

## University Examinations 2024/2025

THIRD YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF  
SCIENCE IN AGRICULTURE.

### AAA 3302: PLANT PATHOLOGY

DATE: JANUARY 2025

TIME: 2 HOURS

#### INSTRUCTIONS:

1. Answer Question ONE, and any other TWO

#### QUESTION ONE (30 MARKS)

- a) Differentiate between the following terms used in plant pathology:
  - i. Hypertrophy and hypotrophy (4 marks)
  - ii. Infection and infestation (4 marks)
  - iii. Epidemic and endemic (4 marks)
- b) Explain the role of genetic engineering techniques in plant disease management. (6 marks)
- c) Describe four characteristic of viral diseases (4 marks)
- d) Explain the signs of ill health in plants (6 marks)

#### QUESTION TWO (20 MARKS)

- a) Explain the role of enzymes in plant disease development (10 marks)
- b) Discuss how modern agriculture contributes to plant disease increase. (10 marks)

#### QUESTION THREE (20 MARKS)

- a) Explain the classification of diseases based on the plant part affected (12 marks)
- b) Explain the effect of toxins in plants. (8 marks)



#### **QUESTION FOUR (20 MARKS)**

- a) Discuss four factors that influence plant disease development (8 marks)
- b) Discuss the requirements of disease forecasting. (12 marks)

