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University Examinations 2023/2024

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

AAA 3302: PLANT PATHOLOGY

DATE: DECEMBER 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE (30 MARKS)

a) Describe the following terms as used in plant pathology:

- (i) Hypertrophy (2 marks)
- (ii) Epidemiology (2 marks)
- (iii) Pathogenesis (2 marks)

b) Explain the use of genetic engineering techniques in plant disease management (6 marks)

c) Describe four characteristics of viral diseases (4 marks)

d) Describe two fungal diseases with details in the following areas:

- (i) Causal agent (4 marks)
- (ii) Symptoms (6 marks)
- (iii) Control (4 marks)

QUESTION TWO (20 MARKS)

a) Explain the role of enzymes in plant disease development (10 marks)



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b) Discuss the cultural methods of plant disease management (10 marks)

QUESTION THREE (20 MARKS)

a) Explain the process of disease development in plants (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 non parasitic causes of plant diseases (12 marks)



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