

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BOTA 453: PLANT PATHOLOGY

STREAMS: BSC

TIME: 2 HOURS

DAY/DATE: MONDAY 01/11/2021

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer All Questions in Section A and Two Questions in Section B

SECTION A: Short answer questions (30 Marks)

1. Differentiate between the following terms as used in plant pathology
 - a. Monocyclic and polycyclic epidemics (1 mark)
 - b. Inoculation and invasion (1 mark)
 - c. Non-host and alternative host (1 mark)
 - d. Gall and smut (1 mark)
 - e. Blight and wilt (1 mark)
2. Outline five way by which plant pathogen affect host transport (5 marks)
3.
 - a. What is disease triangle as used in plant pathology (2 marks)
 - b. Explain three environmental factors that affect disease formation (3 marks)
4. Describe the development of bacterial wilt disease (5 marks)
5. Describe different feeding mechanisms in plant parasitic nematodes (5 marks)
6. Explain various steps of diseases diagnosis as designed by Robert Koch (5 marks)

SECTION B: ESSAY QUESTION (40 MARKS)

7. Discuss methods of disease dispersal (20 marks)
8. Discuss general management of plant viral diseases (20 marks)
9. Discuss the adaptations of parasitic higher plants to their parasitic mode of life (20 marks)