

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
MASTER OF SCIENCE IN BOTANY (PLANT PATHOLOGY)**

BOTA 805: EPIDEMIOLOGY AND PLANT DISEASE CONTROL

STREAMS: MSC (BOTANY)

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 22/04/2020

8.30 AM – 11.30 AM

INSTRUCTIONS:

ANSWER ANY THREE QUESTIONS

1. (a) Describe the following concepts as used in plant pathology
 - (i) Gene for gene hypothesis [3 marks]
 - (ii) Disease cycle [3 marks]
 - (b) Discuss the effects of plant disease to humans. [4 marks]
 - (c) Discuss how sanitation can be used in plant disease control. [5 marks]
 - (d) Explain how to create conditions that are unfavorable for the growth of pathogen. [5 marks]
 2. (a) Discuss the objectives realized by formulation of the pesticides used in plant disease control. [5 marks]
 - (b) Describe the factors to consider when applying pesticides on crops. [7 marks]
 - (c) Discuss the application of physical methods in plant disease control. [8 marks]
 3. Discuss integrated control of plant diseases in perennial crops. [20 marks]
 4. Discuss the measurement of disease incidence in crops. [20 marks]
 5. Discuss biological methods of disease control. [20 marks]
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