MASINDE MULIRO UNIVERSITYOF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF

BACHELOR OF AGRICULTURE EXTENSION AND EDUCATION

(BSc. AGED)

COURSE CODE:AGR 321
COURSE TITLE: CROP PROTECTION

DATE: **21ST April 2023** TIME: **8-10 AM**

INSTRUCTION TO CANDIDATES

Answer All Questions in Section A (30 Marks) and TWO in section B, (40 Marks)

TIME: 2 hours

MMUST observes ZERO tolerance to examination cheating

SECTION A

I The word pest refers to three different categories of plant distracters, name them **(6 marks)**.

2 Weeds are namely plants parasites, as a result of their nature, we classify them botanically and by their mode of action. Define the latter categorization**(4 marks)**.

3 Insect as pests will cause damage according to their population, describe measures in the Ecosystem used in determining levels of damage by them**(10 marks)**

4 Discussepidemiology of plant pathogenic pests. How can disease forecasting prevent losses before an epidemic occurs. Give examples **(10 marks)**

SECTION B:Answer 2 questions from

1 What is a plant disease? Using Kocks postulates, discuss how you can confirm occurrence, and estimate of damage of a named plant disease **(20 marks)**

2 Discuss Host plant resistance, one of the most effective principles of pest disease control. Discuss methods of inferring resistance and two major types of resistance **(20 marks)**

3 (a) Classify insect pests affecting our crops. **(10 marks)**

(b) With examples from maize and cotton discuss how molecular work is used in inferring resistance to the borers **(10 marks)**

4 (a) Define herbicides; history and development of chemical herbicides. What is the current place of bio pesticide **(10 marks)**

b)herbicide and plant selectivity, time of use, type of herbicide method of application **(10 marks)**