



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER

MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION AND
EXTENSION**

COURSE CODE: ACR 324

COURSE TITLE: CROP PROTECTION

DATE: 6TH SEPTEMBER 2022

TIME: 2 – 4 PM

INSTRUCTIONS TO CANDIDATES

Answer Question One and Any other TWO (2)

TIME: 2 Hours

This Paper Consists of 2 Printed Pages. Please Turn Over. 

KIBU observes ZERO tolerance to examination cheating

QUESTION ONE: (COMPULSORY)**(30 MKS)**

- a. Define the following terminologies as applied in crop pathology
 - i. Host (2 MARKS)
 - ii. Necrotroph (2 MARKS)
 - iii. Hemibiotroph (2 MARKS)
 - iv. Obligate pathogen (1 MARKS)
 - v. Facultative pathogen (2 MARKS)
 - vi. Remote Sensing (2 MARKS)
- b. Diseases can be classified into two categories based on the causal agents. Describe the TWO categories (6 MARKS)
- c. List any FOUR characteristics features of weeds that help their better establishment and development. (4 MARKS)
- d. List THREE methods of plant disease control. (3 MARKS)
- e. List the THREE main body parts of an insect body. (3 MARKS)
- f. List THREE harmful insects to crops (3 MARKS)

QUESTION TWO

- a. Describe the FIVE classes of Fungicides (10 MARKS)
- b. Explain the following methods of pest control
 - i. Biological Pest Control (2 MARKS)
 - ii. Cultural practices (4 MARKS)
 - iii. Crop rotation (4 MARKS)

QUESTION THREE

The disease cycle is a series of definite events, which lead to the disease development and pathogen propagation. Describe these events. (20 MARKS)

QUESTION FOUR

- a. Outline FIVE types of insect pests that cause damage through Injury by piercing and sucking pests. (5 MARKS).
- b. Briefly discuss insect anatomy under the following sub-titles
 - i. Nervous System (3 MARKS)
 - ii. Respiratory system (3 MARKS)
 - iii. The digestive and excretory systems (3 MARKS)
 - iv. Circulatory system (3 MARKS)
 - v. Reproductive system (3 MARKS)

QUESTION FIVE

- a. Describe TWO categories of pests based on Pest-Host association. (10 MARKS)
- b. Weeds cause greater losses in crop yields than either insects or plant diseases. Describe any FIVE ways through which weeds cause these losses. (10 MARKS)