



# 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:** 6<sup>TH</sup> 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	(50 14113)
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)
OHECTION TWO	
QUESTION TWO	(10.14.0770)
a. Describe the FIVE classes of Fungicides	(10 MARKS)
b. Explain the following methods of pest control	(2.) (A.D.Y.C.)
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)
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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)
OTIECTION FIVE	
QUESTION FIVE  Describe TWO categories of pasts based on Past Host association	(10 MADEC)
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 di	
any FIVE ways through which weeds cause these losses.	(10 MARKS)