



(Knowledge for Development)

# KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER

SUPPLEMENTARY/SPECIAL EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION AND  
EXTENSION

**COURSE CODE: ACR 324**

**COURSE TITLE: CROP PROTECTION**

**DATE: 25<sup>TH</sup> NOVEMBER 2022**

**TIME: 8 – 10 AM**

## 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 MARKS)**

- a. Define the following terminologies as applied in crop pathology
- i. Pathogen (2 MARKS)
  - ii. Parasite (2 MARKS)
  - iii. Infection (2 MARKS)
  - iv. Weed (2 MARKS)
  - v. Biotroph (2 MARKS)
  - vi. Disease (2 MARKS)
- b. Outline the FOUR classes of insecticides. (4 MARKS)
- c. Define the TWO main types of plant resistance to pathogens in Crop Protection. (4 MARKS)
- d. List any THREE beneficial insects to crops (3 MARKS)
- e. Define Economic injury level (EIL) (2 MARKS)
- f. Define the following types of pests
- i. Major pests (1 MARKS)
  - ii. Occasional pests (2 MARKS)
  - iii. Migrant pests (2 MARKS)

**QUESTION TWO**

Discuss FIVE hazards of pesticides used in crop protection (20 MARKS)

**QUESTION THREE**

Discuss reproduction in weeds under the following sub-titles:

- i. Sexual reproduction in weeds (5 MARKS)
- ii. Asexual reproduction in weeds (3 MARKS)
- iii. Vegetative reproduction in weeds (12 MARKS)

**QUESTION FOUR**

Describe FIVE principles of Integrated Pest Management. (10 MARKS)

Describe FIVE harmful effects of weeds. (10 MARKS)

**QUESTION FIVE**

- a. Describe any FIVE types of Biotic or infectious diseases in crops. (15 MARKS)
- b. Outline any FIVE types of insect pests that cause damage through injury by internal feeders. (5 MARKS).