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*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2022/2023 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**  
**MAIN EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND  
BIOTECHNOLOGY & BACHELOR OF SCIENCE AGRICULTURE  
EDUCATION AND EXTENSIONS**

**COURSE CODE: ACR 324**  
**COURSE TITLE: CROP PROTECTION**  
**DATE: 19<sup>TH</sup> DECEMBER 2022** **TIME: 2 – 4 PM**

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**INSTRUCTIONS TO CANDIDATES**

**Answer Question ONE and any other TWO Questions.**

**TIME: 2 Hours**

**This paper consists of 2 printed pages. Please Turn Over**



**KIBU observes ZERO tolerance to examination cheating**

### QUESTION 1

- a) List six (6) important weeds identified in your community(3 marks)
- b) State the importance of disease forecasting (2mks)
- c) List four distinguishing characteristics of the class INSECTA (4 marks)
- d) State three forms of herbicide formulation(3marks)
- e) Outline the agents of weed seeds dispersal (3 marks)
- f) Name three components that causes a disease to occur in any plant system(3 marks)
- g) Differentiate between the symptoms and signs of a plant disease (2 marks)
- h) State 3 categories of plant disease symptoms based on morphology (3 marks)
- i) Discuss the economic importance of weeds (5 marks)
- j) List two bacterial diseases of two key Crops (2marks)

### QUESTION 2.

Write brief notes covering etiology, host range, symptomatology, and control of FALL ARMY WORM (FAW) in Maize (20marks)

### QUESTION 3.

- a) Discuss the principles of plant disease control (10marks)
- b) Outline the Classification of weeds based on life cycle, habitat, growth habit, morphology and climate (10marks)

### QUESTION 4.

- a) One of the most important parts of an insect to the farmer is the '*Insect Mouth Part*'. Discuss(10 marks)
- b) Describe methods of insect pest control (10 marks)

### QUESTION 5

- a) Discuss the modes of insecticide action (10marks)
- b) Describe effects of nematode attack on crops (10mks)