



KAIMOSI FRIENDS UNIVERSITY

(SPECIAL EXAMINATION)

SECOND YEAR SECOND SEMESTER UNIVERSITY EXAMINATIONS

**FOR THE ACADEMIC YEAR 2024/2025
FOR THE DEGREE
OF
BACHELOR OF EDUCATION, SCIENCE**

COURSE CODE: AGR 306:

COURSE TITLE: CROP PROTECTION

DATE: 16/6/2026

TIME: 3-5 P.M.

INSTRUCTIONS TO STUDENTS

1. Answer **QUESTION ONE** and **ANY OTHER TWO** from the choices given.
2. Phones, smart watches, ear phones or any other unauthorized digital and AI gadgets and applications are **not allowed** in the examination room.
3. Answer all questions in the exam answer booklet provided.
4. Do not write on this question paper.
5. All KAFU examination rules and regulations apply.
6. **DURATION OF EXAMINATION: TWO (2) HOURS**

KAFU observes ZERO tolerance to examination cheating.
*This paper consists of **TWO** printed pages. Please turn over*

QUESTION ONE (30 Marks)

- a. Explain the phenomenon host specificity in pathogens (3marks)
- b. What are non-pathogen plant diseases? (3marks)
- c. Discuss the importance of nutrients in crop weed competition (4marks)
- d. Describe the phenomenon of host plant resistance (3marks)
- e. Distinguish the important role of insects in the agri-ecosystem (4 marks)
- f. Describe the importance of diseases and insect pest's recognition. (4 marks)
- g. Describe disease forecasting? (4marks)
- h. Why is understanding pesticide toxicity and safety important? (3marks)
- i. Discuss the advantages of the integrated pest management (4 marks)

QUESTION TWO (20 Marks)

- i. Discuss the methods of managing post-harvest crop loss (10 marks)
- ii. What is an herbicide? Describe methods of application. (5 marks)
- iii. Discuss the important role of fungi and bacteria in the agri-systems (5 marks)

QUESTION THREE (20Marks)

Describe phenomenon of host pathogen interaction.

QUESTION FOUR (20Marks)

Discuss the mode of classification and physiology of plant pathogenic fungi.

QUESTION FIVE (20Marks)

Discuss the role played by mites, nematodes, birds, rodents and other vertebrates in crop loss and show management strategies.