



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**SECOND SEMESTER MAIN EXAMINATION
FOR THE MSc IN:
PLANT HEALTH AND MANAGEMENT**

COURSE CODE: APH 823

**COURSE TITLE: PEST MANAGEMENT AND PESTICIDE
SCIENCE**

DATE: 20.04.2023

TIME: 2 -5PM

INSTRUCTION TO CANDIDATES

Answer ANY Three (3) Questions

MMUST observes ZERO tolerance to examination cheating

This paper consists of TWO (2) printed pages. Please turnover.

Question 1

- a) Discuss any five (5) factors that characterizes a population (10 marks)
- b) Discuss the role of the community in characterizing the dynamics of a species' population (10 marks)

Question 2

- a) Describe the basic procedure of assessing pest damage (8 marks)
- b) Discuss any four (4) experimental techniques for assessing pest damage (12 marks)

Question 3

- a) Illustrate the concept of pest risk analysis (PRA) using the three (3) major stages (6 marks)
- b) Suggest how to improve the PRA approach of pest management (12 marks)

Question 4

- a) Discuss the three (3) major methods of managing insect pests (15 marks)
- b) Explain the concept of integrated pest management (IPM) (5 marks)