



(University of Choice)

## MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

### UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

# SECOND SEMESTER COURSEWORK EXAMINATIONS FOR THE MSc IN: PLANT HEALTH AND MANAGEMENT (MAIN EXAMINATION)

**COURSE CODE: APH 823** 

COURSE TITLE: PEST MANAGEMENT AND PESTICIDE SCIENCE

**DATE: 28<sup>TH</sup> APRIL, 2022** 

**TIME: 2-5 PM** 

#### 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)	Define population dynamics	(3 marks)
b)	Name any five (5) factors that characterize population	(10 marks)
c)	Discuss the role of an insect community in characterizing the	
	population dynamics of a given insect species	(7 marks)

	Question 2	
a)	Describe the basic procedure of assessing pest damage	(8 marks)
b)	Name and discuss any four (4) experimental techniques for assessing	
	pest damage	(12 marks)

#### Question 3

a)	Define pest risk analysis (PRA)	(3 marks)
b)	Describe the three (3) major stages of PRA	(12 marks)
c)	Suggest how to improve the PRA approach of pest management	(3 marks)

#### Question 4

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a)	There are three	maior wave	of ma	naging nests.
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ii. Chemical

iii. Avoidance
b) Discuss each method (15 marks)
c) Define and illustrate integrated pest management (IPM) (5 marks)

