CROP SCIENCE DEPARTMENT

CPS 4509: Integrated Pest and Disease Management

Supplementary Exam

Date: August 2023 **Marks**: 100 **Time**: 3hours

Instructions: a) Answer any 2 from Section A and any 2 questions from Section B

b) All questions carry equal marks

SECTION A

Instructions: Answer any 2 questions in this section. All questions carry equal marks.

QUESTION 1

a) Describe how crop rotation can influence development of plant disease.	. [15 Marks]
b) Discuss plant disease measurement and its importance in IDM	[10 Marks]
QUESTION 2 (25 Marks)	
Describe IDM and its significance in plant diseases control	[15]
b) Explain the use of induced host resistance in IDM	[10]
QUESTION 3 (25 Marks)	
a) Discuss disease management in organic farming underi. Choice of cropping systemii. Flooding and earthing up	[15]
iii. Organic practices after planting	
b) Describe any two methods used in determining the plant disease thresholds.	olds [10]

SECTION B

QUESTION FOUR

- 1. Elaborate on any four operational factors that lead to insect resistance to insecticides
- 2. Explain management of resistance development by multiple attack

QUESTION FIVE

Explain the following pest management strategies and the tactics used in each strategy

- 1. Do nothing strategy
- 2. Reduced number strategy
- 3. Reduced crop susceptibility strategy

QUESTION SIX

- 1. Define Integrated Pest Management (IPM) by elaborating on each letter
- 2. Discuss the first five principles of IPM