CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE IN CROP PROTECTION

HORT 878: BIOTECHNOLOGY IN PEST MANAGEMENT

STREAMS: MSC HORTICULTURE Y1S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 6 /10 / 2021 2.30 PM - 4.30 PM

INSTRUCTIONS TO CANDIDATES:

- Answer ALL Questions in Section A and any other Two in Section B.
- DO NOT WRITE ANYTHING on the question paper.

SECTION A (TOTAL 20 MARKS)

- 1. (a) Describe ecological resistance and how it protects plants from pests.[10 Marks]
 - (b) Discuss the advantages of Host Plant Resistance as a component in IPM.

 [10 Marks]

SECTION B (TOTAL 40 MARKS)

2. Discuss the Mechanisms of Pest Resistance in plants. [20

Marks]

3. (a) Elaborate on the importance of genetic modification in plants. [10

Marks]

(b) Discuss concerns arising from the use of GM in horticultural crops.[10 Marks]

HORT 878

4.	(a)	Write brief notes on durable resistance for diseases in plants.	[10
Mar	ks]		
	(b)	Discuss resistance produced through transformation in plants.	[10
Mar	ks]		