

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF MASTER OF SCIENCE IN HORTICULTURE

HORT 878: BIOTECHNOLOGY IN PEST MANAGEMENT

STREAMS: MSC (HORT)

TIME: 3 HOURS

DAY/DATE: TUESDAY 06/04/2021

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS:

SECTION A (COMPULSORY) – 20 MARKS

1. Discuss:
 - (a) Mechanism of action of Bt toxin [10 marks]
 - (b) Management of resistance to Bt crops [10 marks]

SECTION B: ANSWER ANY 2 QUESTIONS (40 MARKS)

2. Discuss the impact of climate change on pest population [20 marks]
 3. Discuss the use of marker assisted selection in pest management [20 marks]
 4. (a) Discuss the negative environment impacts of genetically modified herbicide-resistant plants and mitigation measures [10 marks]
 - (b) Discuss the application of biotechnology in crop protection [10 marks]
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