

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE

HORT 331: HORTICULTURAL CROP PROTECTION

STREAMS: BSC HORT Y3S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/08/2021
P.M.

2.30 P.M – 4.30

INSTRUCTIONS

This paper has two sections A and B

Section A accounts for 30 marks while Section B accounts for 40 marks

Section A is compulsory

Answer any Two questions in Section B

SECTION A

1. Define the following terms

- i. Economic damage (2marks)
- ii. Economic injury level (2marks)
- iii. Economic threshold (3marks)

2. a. Define the term pest (2marks)

- b. Giving relevant examples describe factors affecting pest status (8marks)
3. Describe the terms (i) Severity and (ii) incidence and their utilization as in crop loss assessment (6 marks)
4. a. Define the term weed (2 marks)
- b. Giving relevant examples, describe general symptoms of weed invasion (5 marks)

SECTION B

1. a. Discuss the tomato leaf miner under the following sub-headings
- i. Host range (2 marks)
 - ii. Damage (6 marks)
 - iii. Control (6 marks)
- b. Describe common pesticide formulations used in crop protection (6 marks)
2. a. Under the following subheadings discuss witch weed
- i. Why it is a successful weed (4 marks)
 - ii. Mode of attack (4 marks)
 - iii. Mechanism of push and pull technology in the control of witch weed and stem borer (6 marks)
- b. Describe the effect of pathogens on plant function (6 marks)
7. a. Describe the effect of pesticides on the environment (8 marks)
- b. Discuss utilization of biotechnology in crop protection (12 marks)
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