

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN HORTICULTURE

HORT 0323: INTRODUCTION TO GREENHOUSE PRODUCTION

STREAMS: DIP. HORT

TIME: 3 HOURS

DAY/DATE: TUESDAY 09/04/2024

8.30 A.M. – 10.30 A.M.

**INSTRUCTIONS**

- This paper has two sections A and B
- Section A accounts for 40 marks while Section B accounts for 30 marks
- Section A is compulsory
- Answer any two questions in Section B SECTION A

1. a. Define the term green house. (2 marks)  
b. Describe factors to consider in site selection of a greenhouse (6 marks)
2. Explain briefly the following aspects as used in greenhouse production
  - a. Greenhouse effect (6 marks)
  - b. CO<sub>2</sub> enrichment (6 marks)
3. Describe classification of greenhouses according to cladding material. (6 marks)
4. Describe properties of a polyfilm. (4 marks)
5. Discuss cultural control of greenhouse pests. (10 marks)

**SECTION B**

6. a. Discuss temperature control in greenhouse environment (8 marks)  
b. Discuss insect growth regulators in control of greenhouse insect pests (7 marks)
7. Discuss the following growing Medias as used in greenhouse crop production
  - a) Vermiculite (4 marks)

b) Rice hulls (4 marks)

c) Perlite (4 marks)

d) Pumice (3 marks)

8. Discuss the below as a cultural crop management practices

a. Mulching (8 marks)

b. Staking (7 marks)

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