



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (CROP IMPROVEMENT AND PROTECTION AND AGRICULTURE)

KST 307: CROP PRODUCTION IN PROTECTED ENVIRONMENT

DATE: THURSDAY, 29TH MARCH 2012

TIME: 2.00 P.M. – 4.00 P.M.

SECTION A: Answer **ALL** Questions (40 Marks)

1. Briefly describe the basic factors to consider while selecting a site for greenhouse construction. (5 marks)
2. State the characteristics of polythene sheet materials used in greenhouse construction. (5 marks)
3. Write short notes on ambient temperature control in crop production. (5 marks)
4. Briefly describe the characteristics of peat moss used as plant growth media. (5 marks)
5. (a) State the importance of filler materials in fertilizers. (1 mark)
(b) Giving examples, differentiate between fertilizer grade and fertilizer ratio. (4 marks)
6. (a) Define the term economic threshold. (1 mark)
(b) State the importance of pest and disease control to crop production. (4 marks)
7. Outline characteristics considered when grading cut flowers. (5 marks)
8. Giving examples, state the difference between plant hormones and plant growth regulators. (5 marks)

SECTION B: Answer any **TWO** questions (30 marks)

9. Discuss parameters to consider when designing a green house. (15 marks)
10. Auxin is an important hormone in plant growth and development. Discuss. (15 marks)
11. Describe the factors determining the choice of method to be used in pest and disease control. (15 marks)
12. Explain the advantages of drip irrigation system in crop production. (15 marks)
