



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE

ACH 301: VEGETABLE PRODUCTION 1: TEMPERATE VEGETABLES

DATE: DECEMBER 1, 2016

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) State the two stages at which bulb onions can be harvested (2 marks)
 - b) Discuss the limitations of using seeds in propagation of vegetables (4 marks)
 - c) Explain why it is advisable to wash kales before and not after cutting (2 marks)
 - d) Explain why spinach might not flower naturally in the tropics (2 marks)
 - e) Outline the cultural practices applied to control neck rot of bulb onions (2 marks)
 - f) Describe the three different stages at which sweet corn can be harvested (3 marks)
 - g) Outline the advantages of using hydroponics in vegetable production (4 marks)
 - h) Explain why potatoes should not be preceded by tomatoes in the same field (2 marks)
 - i) Discuss the grading standards of French beans in Kenya (4 marks)
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- j) Assume you have been hired by Horticultural Crops Directorate as a consultant to develop strategies of improving vegetable farming in Kenya. Generate a short report on this (5 marks)

QUESTION TWO (20 MARKS)

- a) Outline the effects of high temperature in sweet corn production (4 marks)
b) Discuss the three (3) common production defects of cabbage (6 marks)
c) Outline the advantages and disadvantages of tomato pruning and staking (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss the major constraints facing vegetable production in Kenya and suggest applicable strategies to manage these challenges (14 marks)
b) Outline six (6) strategies you would put in place to ensure the quality of sweet corn for processed and fresh market (6 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the three (3) common physiological disorders in tomatoes (6 marks)
b) Outline the vital characteristics of a good vegetable seed (7 marks)
c) Outline seven (7) methods that can be applied to remove various types of dormancy in vegetable seeds (7 marks)

QUESTION FIVE (20 MARKS)

Assume that the School of Agriculture of the University of Embu has organized a seminar for vegetable farmers and has invited you to present a topic on factors affecting vegetable quality in Kenya. Prepare a detailed farmer friendly presentation on this topic

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