

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECONDYEAR EXAMINATION FOR THE AWARD OF DEGREE  
OF BACHELOR OF SCIENCE (HORTICULTURE)

HORT 234: ORGANIC HORTICULTURAL CROPS PRODUCTION

STREAMS: BSC (HORT)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 06/12/2017

2.30 P.M. – 4.30 P.M.

**INSTRUCTIONS:** Answer all questions in section I and any Two question in section II

**SECTION I (30 MARKS)**

- Q1. (a) As a horticultural expert give your opinion on the factors affecting expansion of local market of organic horticultural crop production in Kenya. [5 marks]
- (b) Advice farmers on how push pull technology can be used to increase sweetcorn yield. [5 marks]
- Q2. Intensive crop production is a common practice in most horticultural farms in Kenya. What do you think are expected challenges in this production system. [6 marks]
- Q3. (a) In your opinion is it advisable for farmers to practice organic farming in Kenya? [3 marks]
- (b) Advice Ndagani organics on how they can maintain and improve the health of the soil under organic farming system. [6 marks]
- Q4. Advice horticultural export producers on how they can ensure minimal residue levels within the produce while controlling pests. [5 marks]

**SECTION II (40 MARKS)**

- Q5. (a) Advice Magana Greens on the primary components of Good Agricultural Practices. [8 marks]
- (b) Advice farmers on the benefits that can be obtained from Global GAP certification. [6 marks]
- (c) Advice on challenges of GAP implementation in Kenya. [4 marks]

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- Q6. (a) Advice Longonot horticulture on the GAPs they can adopt in their vegetable production system to maintain soil fertility and productivity per unit area. [10 marks]
- (b) Elaborate on why farmers under organic farming systems should be encouraged to use natural pest control strategies. [10 marks]
- Q7. (a) Solarization has become a major activity in greenhouse production systems in organic management of pests. Advice Hortflow farm on how to conduct solarization. [12 marks]
- (b) Give an account of how farmers can minimize risks from organic manure utilization. [8 marks]
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