COURSE CODE: APT 3413

COURSE TITLE: HORTICULTURAL CROP PRODUCTION


DATE: 3RD DEC 2018

EXAM SESSION: 12.00 – 2.00PM

TIME: 2 HOURS

Instructions:

1. Answer ALL questions in section A and ANY other 2 Questions in section B
2. Candidates are advised not to write on question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.
SECTION A  [30MARKS]

Answer ALL questions from this Section.

1a. Highlight the main features of horticulture farming in Kenya.  [10 marks]

b. A fruit producer wants to establish an orchard in a sparsely populated low potential land which will be sold locally and for export market, explain the prospective producer’s consideration in terms of corporate investment policy.  [10 marks]

c. Explain key components of integrated horticultural production.  [10 marks]

SECTION B : [40 MARKS]

Answer ANY TWO questions in this section

2. Discuss strategies for developing a more sustainable horticulture production.  [20 marks]

3. Explain the following in horticultural crop production:
   a. Temperature effects  [8 marks]
   b. Effects of light quality and photoperiodism  [6 marks]
   c. Pre – cooling of horticulture produce  [6 marks]

4a. Greenhouses are commonly used in Kenya to produce vegetables, nursery stock / pot plants. But sometimes outside ambient temperature rises causing inside greenhouse temperature not ideal for production of good quality crop. Explain how the temperature inside the greenhouse can be modulated.  [12 marks]

   b. Explain the objectives and advantages of protected cultivation of horticulture crops.  [8 marks]