



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION AND
BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT
2016/2017 ACADEMIC YEAR**

REGULAR

COURSE CODE: APT 3413

COURSE TITLE: HORTICULTURAL CROP PRODUCTION

EXAM VENUE: LR 6

**STREAM: (BSC. Agric. Ext. Educ. & BSC.
Agribusiness Mgt.)**

DATE: 15/12/16

EXAM SESSION: 9.00 – 11.00 AM

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**30 Marks****Answer ALL questions in this section**

1. Discuss the “comparative advantage” of Kenya’s horticulture. [6 marks].
2. Explain the role of Fresh Produce Exporter’s Association of Kenya (FPEAK) as a regulatory body governing production of horticulture produce and products. [10 marks].
3. Explain graft combination as a form of growth control in horticulture. [10 marks].
4. Outline physiological factors that determine harvest indices of horticultural produce. [4marks]

SECTION B**40 Marks****Answer ANY TWO Questions in this section**

5. Explain:
 - i. Role of horticultural industry in Kenya. [10 Marks].
 - ii. International market requirements for fresh horticultural produce from Kenya. [10 Marks]
6. The root cause of hunger is poverty. Therefore, the primary solution to the human nutrition and food supply is to increase productivity at small farm level involving intensification of horticulture. Discuss. [20 Marks].
7. Explain the following in commercial horticulture:
 - i. Fruit and nut growing [8 Marks]
 - ii. Vegetable growing [8 Marks]
 - iii. Seed production [4 Marks]