



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
IN HORTICULTURE**

SECOND YEAR SECOND SEMESTER 2013/2014 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3225

COURSE TITLE: Plant Growth Processes

EXAM VENUE: LR 3

STREAM: BSc (Horticulture)

DATE: 10/12/14

EXAM SESSION: 9.00 -11.00 AM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL question in Section A (compulsory) and ANY TWO questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

1. Present a schematic diagram in the course of development in plants. [5 marks]
2. Explain the role of hormones in the rooting and sex expression in plants. [6 marks]
- 3 (a) Explain what meant by cell division. [2 marks]
(b) What developmental processes can be used as measurement of flowering? [5 marks]
4. Explain senescence in plants. [5 marks]
5. Discuss the role of phytochrome in flowering. [4 marks]
6. Explain the response of tropical plants to seasonal variations. [3 marks]

SECTION B [40 MARKS]

Answer any TWO QUESTIONS in this Section.

1. Discuss the interactions between the vegetative and reproductive parts in plant growth processes. [20 marks]
- 8.(a) Discuss juvenility in plants. [12 marks]
(b).Explain the role of hormones in juvenility. [8 marks]
9. Discuss pthotoperiodism and vernalization in reproductive development of plants. [20 marks]