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**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**

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**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]