



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SBT 308: PLANT GROWTH AND DEVELOPMENT

DATE: Wednesday 7th December, 2011

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and ANY ONE in section B. Answers in Section A should be concise and clear and should be written in the spaces provided in the question paper. Answers to Section B should be written in the booklet provided. Use illustrations and examples where appropriate. Questions in each section carry equal marks.

SECTION A – SHORT ANSWER QUESTIONS (40 MARKS)

1. Describe vernalization in plants.

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4. Describe how plant growth substances are translocated in plants.

5. Describe the interaction between hormones in plant growth and development.

6. Describe five bioassays of auxins.

7. Describe how the growth of plants can be assessed in the green house.

8. Outline five physiological effects of gibberellins in plants.

SECTION B

Answer ANY ONE question. (30 marks)

1. Discuss the applications of plant growth substances in agriculture and forestry
2. Describe different types of plant movements.
3. Discuss the mechanism of action of plant growth substances.

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