

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOTECHNOLOGY**

**SBT 2333: PHYTOHORMONES**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

**QUESTION ONE: 30 MARKS**

a. Briefly explain how auxins have been used in a deleterious way. (5 marks)

b. Briefly discuss gibberellins inhibitors and their uses in horticulture.

(5 marks)

c. Describe the role of different plant hormones on parthenocarpy. (5 marks)

d. Briefly describe the contributions of Julius Von Sashs to the plant hormone concept. (5 marks)

e. Discuss briefly the effects of gibberellins on single gene dwarf plants.(5 marks)

f. Discuss briefly how the knowledge of apical dominance has been used to improve potato storage. (5 marks)

**QUESTIONTWO: 20 MARKS**

Discuss the use of auxins in the fruit industry.

**QUESTIONTHREE: 20 MARKS**

Discuss the chemistry of cytokinons.

**QUESTION FOUR: 20 MARKS**

Discuss ethylene