

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURAL EDUCATION AND EDUCATION**

HORT 111: PRINCIPLES AND PRACTICES OF HORTICULTURE

STREAMS: BSC AGED Y1S2

TIME: 2 HOURS

**DAY/DATE: TUESDAY 23/03/2021
P.M**

11.30 A.M – 1.30

INSTRUCTIONS:

Answer all questions in section A and any two from section B

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Discuss briefly the subsectors in the agricultural sector in Kenya. [6 marks]
2. Outline the functions of Nitrogen in plants. [4 marks]
3. (a) Describe briefly the characteristics of horticultural crops. [6 marks]

(b) Discuss briefly the ways used to classify fruit crops. [5 marks]
4. (a) Discuss bagasse as a growing media. [5 marks]

(b) Outline the role of Gibberellins as plant growth hormone. [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

5. Discuss the various types of plant growth structures for horticultural crops. [15 marks]

(b) Discuss why monoculture is a preferred system in horticultural production. [5 marks]

6. Discuss how the following factors affect plant growth and development:

(a) Topography [10 marks]

(b) Soil [10 marks]

7. (a) Explain the challenges faced by small scale horticultural producers. [10 marks]

(b) Discuss the role of agriculture in Kenya's economy. [10 marks]
