



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

**MAIN CAMPUS
MAIN EXAMINATIONS**

**UNIVERSITY EXAMINATIONS (REGULAR)
2021/2022 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF B.Sc. IN: SAR/SAM/SAE/EPE/AGED.**

COURSE CODE: ACR 202

COURSE TITLE: PRINCIPLES OF HORTICULTURE

DATE: 29th APRIL, 2022 TIME: 8-10am

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO questions in section B

Time: 2 Hours

Total marks=70

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

SECTION A (30 MARKS)

1. Explain five factors one would consider when setting up an orchard. (10 marks)
2. Discuss the quincunx or filter system of orchard layout the aid of a diagram (10 marks)
3. Discuss the advantages of vegetative propagation in fruit production. (10 marks)

SECTION B (40 MARKS)

4. Discuss the function of the following growth regulators (20 marks)
 - i. Auxins
 - ii. Gibberellins
 - iii. Cytokinins
 - iv. Ethylene
 - v. Abscisic acid.
5. With aid of a diagram explain the T-budding and Inverted T-budding(20 marks)
6. Discuss the ripening indices in mangoes and banana fruits (20 marks)