



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF BUSINESS & ECONOMICS

DEPARTMENT OF AGRICULTURE

UNIVERSITY ORDINARY EXAMINATION

2021/2022 ACADEMIC YEAR

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR, BACHELOR OF
SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**

GAC 202– CROP PRODUCTION & PROPAGATION

DURATION: 2 HOURS

Instructions to candidates:

1. Answer question One and Any Other Two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- a) Distinguish the following terms:
 - i. Sowing and planting. (4marks)
 - ii. Crop density and leaf Area Index. (4marks)
 - iii. Economic yield and Biological yield. (4marks)
 - iv. Dibbling and Drilling methods of sowing. (4marks)
- b) Explain any six factors that affect the actual time of sowing. (6marks)
- c) Explain the main advantages of alternative tillage. (8marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Discuss the five external factors that affect crop production. (20marks)

QUESTION THREE (20 MARKS)

- a) Compare and contrast ASEXUAL and SEXUAL propagation methods illustrating your answer with appropriate examples. (10marks)
- b) Discuss the advantages and disadvantages of vegetative propagation. (10marks)

QUESTION FOUR (20 MARKS)

Discuss the different soil characteristics that affect crop production and how they are managed. (20marks)