

CAG 006



University of choice

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND
TECHNOLOGY (SAVET)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**MAIN EXAMS
OF
DIPLOMA IN GENERAL AGRICULTURE**

COURSE CODE: CAG 006

COURSE TITLE: PRINCIPLES OF CROP PRODUCTION

DATE: 14.12.23

TIME: 3-5PM

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, **A and B**. Answer ALL Questions in SECTION A and any Two in SECTION B

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

SECTION A: ANSWER ALL QUESTIONS

1. Write the botanical names of the following weeds
 - a) Sodom apple
 - b) Wandering jew
 - c) Stinging nettle
 - d) Striga
 - e) Star grass
2. What is sub soiling? (2mks)
3. State 5 reasons for minimum tillage
4. State 5 factors that determine the spacing of a crop (5mks)
5. State 2 micronutrients and their functions in crops (2mks)
6. Give 2 examples of crop diseases in each of the following categories
 - a) fungal diseases (2mks)
 - b) viral diseases (2mks)
 - c) bacterial diseases (2mks)
7. Outline 3 reasons why it is important to carry out maintenance practices on farm tools and equipment
8. Name 4 ways through which chemicals work to kill weeds (4mks)
9. State 3 problems associated with use of organic manures (3mks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

10. Giving suitable examples, discuss the following methods of weed control (20mks)
 - a) Mechanical weed control.
 - b) Cultural weed control.

- c) Biological weed control.
- d) Legislative weed control.
- e) Chemical weed control.

11. Describe the ecological zones found in Kenya. (20mks)

12. Describe the problems facing Kenyan farmers and the solutions (20mks)

13. a. Giving examples, describe 5 means of vegetative propagation (10mks)

b. Explain the steps taken when propagating plants by tissue culture (10mks)

