



(University of Choice)

**MASINDE MULIRO UNIVERISTY OF
SCIENCE AND TECHNOLOGY (MMUST)**

**MAIN CAMPUS
UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR (REGULAR)
FIRST YEAR FIRST SEMESTER EXAMINATIONS**

SPECIAL/SUPPLEMENTARY EXAMINATIONS

THE CERTIFICATE

OF

CERTIFICATE IN GENERAL AGRICULTURE (CAG)

COURSE CODE: CAG 006

COURSE TITLE: PRINCIPLES OF CROP PRODUCTION

DATE: 1.8.22

TIME: 2-4

INSTRUCTIONS TO STUDENTS

ANSWER ALL QUESTIONS IN SECTION A

ANSWER ANY TWO QUESTIONS IN SECTION B

MMUST OBSERVES ZERO TOLERANCE TO EXAMINATION CHEATING

SECTION A: Attempt all Questions (40MARKS)

1. (a) define the following terms as used in principles of crop production (5mks)
- (i) Cropping system
 - (ii) Crop ecology
 - (iii) Seedbed
 - (iv) Primary tillage
 - (v) Plant propagation
- (b) many plant diseases produce characteristic symptoms through which they can be recognized. state any three symptoms that may indicate a plant disease (3mks)
2. (a) The art of crop production is older than civilization and its essential features have remained almost unchanged since the dawn of history. State FOUR of those features (4mks)
- (b) weeds are plants growing where they are not required. state four characteristics of weeds (4mks)
- (c) state two major methods of harvesting. (2mks)
- 3) a) Shifting cultivation is one of the cropping systems. state four disadvantages of shifting cultivation (4mks)
- b) Name four other types of cropping systems (4mks)
- 4 a) crop environment factors or components are classified into major groups. state two groups giving an example in each case (2 mks)
- b) state four roles of water as a growth factor in plants (4mks)
- C) outline any four importance of soil microorganisms (2mks)
5. (a) List three benefits of early planting (3mks)
- (b) Pests can be controlled by cultural methods. State THREE ways of controlling pests based on cultural methods. (3mks)

SECTION B: Attempt any two Questions (30 marks)

- 6 Discuss the agronomic classification of crops giving examples in each case. (15 marks)
- 7.a) Describe factors that constitute constraints to crop production in Africa (8marks)
- (b) Discuss the measures that can be taken to increase food production in Kenya (7marks)
8. (a) Discuss five objectives of land preparation. (10 marks)
- (b) Describe attributes of good planting material or seed. (5marks)