



(University of Choice)

MASINDE MULIRO UNIVERISTRY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

**2021/2022 ACADEMIC YEAR (REGULAR)
FIRST YEAR SECOND SEMESTER MAIN EXAMINATIONS
CERTIFICATE IN GENERAL AGRICULTURE**

COURSE CODE: CAG 016

COURSE TITLE: FARM LAYOUT AND SOIL CONSERVATION

DATE: 22TH APRIL, 2022 TIME: 8-10 AM

INSTRUCTIONS TO STUDENTS

Answer all questions in section A

Answer any TWO questions in section B

Total marks= 70

MMUST observes ZERO tolerance to examination cheating

SECTION A: ANSWER ALL QUESTIONS = 30 MARKS

QUESTION ONE

- a. Differentiate between the following terms.
- i. Soil and water conservation **(2marks)**
 - ii. Soil erosion and water pollution **(2marks)**
 - iii. Irrigation and drainage **(2marks)**
- b. Outline any 5 methods of controlling soil erosion **(5marks)**
- c. State 2 methods of drainage system in agriculture **(2marks)**
- d. Describe the importance of using a cover crop as a method of conserving soil **(4marks)**
- e. Outline the causes of soil erosion **(5marks)**
- f. highlight 5 factors that influences the crop water required **(5marks)**
- g. Outline any 2 methods of irrigation systems used in Agriculture **(3marks)**

SECTION B: ANY TWO QUESTIONS = 40 MARKS

QUESTION TWO

- a. Explain what a cover crop is **(2marks)**
- b. Explain any 3 effects of soil erosion **(6 marks)**
- c. Describe 6 conservation of soil that are used today **(12marks)**

QUESTION THREE

- a. Explain the importance of water conservation for livestock and crop production **(6 marks)**
- b. Discuss the conservation measures that are used by farmers today **(14marks)**

QUESTION FOUR

- a. Describe what irrigation is **(2marks)**
- b. Explain any 3 criteria used for evaluation of water quality for irrigation purposes **(6 marks)**
- c. Describe how is irrigation system important to farmers **(12marks)**