



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD-YEAR SECOND SEMESTER MAIN EXAMINATIONS

**FOR DIPLOMA IN GENERAL AGRICULTURE /DIPLOMA IN
HORTICULTURE**

COURSE CODE: DAG 093

COURSE TITLE: SOIL AND WATER CONSERVATION

DATE: 22ND APRIL, 2022

TIME: 8-10AM

INSTRUCTIONS TO CANDIDATES

Answer all the Questions

Time: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

Question 1:

Provide the universal soil loss equation and what its components mean (8 marks)

Question 2:

Outline any 6 benefits of investing in soil and water conservation in your county (6 marks)

Question 3:

Describe any 5 cultural/agronomic measures of soil and water conservation (10 marks)

Question 4:

Provide the key function of any five structural soil and water conservation measures (5 marks)

Question 5:

Outline any 5 factors you would consider when deciding the use of terracing as an intervention in soil and water conservation (10 marks)

Question 6:

Outline the main activities done in a successful telescopic profile levelling (12 marks)

Question 7:

Briefly explain the principles of organic farming/agriculture (8 marks)

Question 8:

For each principle of conservation agriculture, provide its relevance to soil and water conservation (6 marks)

Question 9:

State any 5 agroforestry practices applicable for soil and water conservation at the farm level (5 marks)