



(University of choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER

SUPPLEMENTARY/SPECIAL EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN DASTER MITIGATION AND SUSTAINABLE DEVELOPEMENT

COURSE CODE:

DSM 303

COURSE TITLE:

APPROPRIATE DEVELOPMENT AND SUSTAINABILITY

DATE:

Friday, 29th July 2022

TIME: 11 am - 1 pm

INSTRUCTIONS TO CANDIDATES

1) This paper contains FOUR Questions

2) Answer question ONE and any TWO questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

Question ONE

- a) Define the following terms:
 - i. Sustainability

(2 marks)

- ii. Environmental sustainability (2 marks)
- iii. Social Sustainability

(2 marks)

iv. Economic sustainability

(2 marks)

v. Explain the term 'carrying capacity'.

(3 marks)

b) Using a suitable diagram, explain the main elements of sustainability.

(7 marks)

c) Outline factors that would limit growth of a population. (7 marks)

d) What is the importance of the environment to human development. (5 marks)

Question TWO

- a) Discuss briefly the significance of the environment to the objectives of Kenya's Vision 2030. (6 marks)
- b) What are the causes of un-sustainability of the environment.

(4 marks)

c) Discuss the main environmental problems associated with modern agriculture.

(10 marks)

Question THREE

- a) Define the term pollution. (4 marks)
- b) Explain the major sources of water pollution. (6 marks)
- c) Account for the harmful effects of water pollution. (6 Marks)
- d) Suggest measures used to control water pollution in Nairobi City. (4 marks).

Question FOUR

a) Define the term land degradation.

(3 marks)

b) Discuss the major causes of land degradation in Kenya.

(10 marks)

c) Suggest measures to improve degraded land of Mt Elgon forest.

(7 marks)