



(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND **TECHNOLOGY (MMUST)**

## UNIVERSITY SPECIAL/SUPPLEMENTARY **EXAMINATIONS** 2021/2022 ACADEMIC YEAR

### THIRD YEAR FIRST SEMESTER EXAMINATIONS

#### FOR THE DEGREE

**OF** 

## BACHELOR OF SCIENCE IN DISASTER MITIGATION AND SUSTAINABLE DEVELOPMENT

CODE:

**DSM 300** 

COURSE TITLE: SUSTAINABLE DEVELOPMENT

DATE:

26/7/2022

**TIME: 8-10 AM** 

#### INSTRUCTIONS TO CANDIDATES

- a) This paper consists of **FOUR** (4) questions
- b) Question ONE is COMPULSORY
- c) Attempt Question ONE and any other TWO (2) questions

TIME: 2 Hours

MMUST observes ZERO tolerance in examination cheating This Paper consists of 2 printed pages, Please Turn Over



## **QUESTION ONE - COMPULSORY QUESTION (30 Marks)**

(a) Explain, giving example, the meaning of the term "SUSTAINABILITY".

(5 marks)

- (b) What is "Agenda 21"? Name any FOUR (4) themes of Agenda 21.
- (5 marks)
- c) Explain what each of the following principles mean pointing out how each principle contributes to sustainable development:
  - (i) Principle of integration

(2 marks)

(ii) Polluter pays principle

(3 marks)

(d) Discuss briefly any FIVE (5) critiques of the concept of 'Sustainable development'.

(10 marks

(e) With the help of a chart, discuss the relationships among the following concepts:

Carrying capacity, Environmental equilibrium, Steady State economy, Environmental degradation, Sustainable Development and Environmental renewal. (5 marks)

#### **OUESTION TWO**

(a) Examine the meaning of the following principles as used in relation to sustainable development: (i) the Principle of intergenerational equity (ii) Precautionary principle.

(10 marks)

(b) Discuss briefly the conditions guiding the application of each of the two principles named above. (10 marks)

## **QUESTION THREE**

- (a) Discuss briefly the functions of the National Environment and Management Authority (NEMA) of Kenya. (10 marks)
- (b) Enumerate FIVE (5) challenges the authority experiences in working towards attaining sustainable development in Kenya. (10 marks)

#### **QUESTION FOUR**

- (a) Name any FOUR outcomes of the World Earth Conference on Environment and Development (WCED) held in Rio De Jenairo in 1992. (10 marks)
- (b) Explain how each of the named outcomes affects sustainable development. (10 marks)