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(University of Choice)

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

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021 / 2022 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

DOCTOR OF PHILOSOPHY IN DISASTER MANAGEMENT AND SUSTAINABLE DEVELOPMENT

COURSE CODE: DSM 901

COURSE TITLE: ENVIRONMENTAL VULNERABILITY TO HAZARDS AND DISASTERS

DATE: 20/04/2022

TIME: 9 – 12 NOON

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **FIVE** questions
2. Each question carries twenty **(20)** marks
3. Attempt **ANY FOUR** questions

MMUST observes ZERO tolerance in examination cheating

This Paper consists of 2 printed pages, Please Turn Over



QUESTION ONE

- (a) Distinguish between Vulnerability and Hazard. **(5 Marks)**
- (b) Explain clearly why Vulnerability is the most important factor in disaster risk reduction. Give the relevant examples. **(15Marks)**

QUESTION TWO

Using examples, illustrate how economic, environmental, social and physical vulnerability factors of are interconnected. **(20 Marks)**

QUESTION THREE

Globalization can influence vulnerability. Using examples, explain how globalization has increased vulnerability of some citizens in Kenya. **(20 Marks)**

QUESTION FOUR

Discuss briefly how a local community or indigenous knowledge has reduced vulnerability in Kenya. **(20 Marks)**

QUESTION FIVE

With the help of a labeled diagram, discuss the concept of 'Progression of Vulnerability' in relation to Nairobi Pipeline Fire disaster of 2011 whereby about 100 persons perished. **(20 Marks)**