



(University of Choice)

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

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
DISASTER MITIGATION AND SUSTAINABLE DEVELOPMENT & RELATED
COURSES**

COURSE CODE: DSM 205

COURSE TITLE: DISASTERS, SOCIETY & SUSTAINABLE DEVELOPMENT

DATE: 21/04/2022

TIME: 8 – 10AM

INSTRUCTIONS TO CANDIDATES

Question **ONE** and any Other **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). Explain any four contributions of risk communication in disaster risk reduction. **(10 marks)**
- b). Using suitable examples, define the following terms as commonly used in risk communication:
- (i) Risk interpretation **(2 Marks)**
 - (ii) Risk normalization **(2 Marks)**
 - (iii) Behaviour **(2 Marks)**
 - (iv) Experience **(2 Marks)**
- c). The outbreak of covid 19 in China initially received low attention in Kenya. However, media reports on widespread death and hospitalization across the globe changed the scenario with many people adhering to Covid prevention protocols such as wearing of masks and social distancing. Lately most people especially in rural areas ignore the containment protocols. Explain this observation from risk communication perspective. **(12 Marks)**

Question TWO

- (a) Distinguish each of the following concepts:

- (i) Direct and secondary costs **(2 Marks)**
- (ii) Cost benefit analysis and cost-effective analysis **(2 Marks)**
- (iii) Damage and loss **(2 Marks)**
- (iv) Economic analysis and financial analysis **(2 Marks)**
- (v) Uncertainty and risk **(2 Marks)**

(b) Covid pandemic has had devastating impacts on productive sectors of the national economy. You have been hired by an international NGO to assess the impacts and recommend recovery needs for the agricultural sector in Kenya. Suggest and explain the framework you will use and how you will go about the exercise. **(10 Marks)**

Question THREE

- a) Explain the components that comprise risk assessment. **(8 Marks)**
- b) Explain four assets that comprise sustainable livelihoods. **(6 Marks)**
- c) With use of suitable examples, illustrate the role of coping mechanisms in disaster risk reduction. **(4 Marks)**

Question FOUR

- a). "Resilience approach is increasingly being adopted in development planning". Discuss this statement. **(10 marks)**
- b). Define the term Business Continuity Plan (BCP) and explain the main components that constitute it. **(10 Marks)**