



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DIPLOMA IN ENVIRONMENTAL SCIENCE

DES18S

AES 2203: ENVIRONMENTAL DISASTER MANAGEMENT

SEMESTER EXAMINATION

AUGUST 2019

2 HOURS

INSTRUCTIONS TO CANDIDATES

*This paper consists of **FIVE** questions*

*Answer question **ONE** (compulsory) and any other **TWO** questions*

*This paper consists of two **PRINTED** pages*

a) Define the following terms (**10 marks**)

- i. A disaster
- ii. Preparedness
- iii. Risk Reduction
- iv. Vulnerability
- v. Flood

b) Outline **FOUR** ways that buildings can be designed to cope with earthquakes (**4 marks**)

- c) Distinguish between **physical vulnerability** and **social vulnerability** (4 marks)
- (d) State any FOUR recent man-made disasters in Kenya (4 marks)
- e) Highlight **FOUR** post disaster activities in case of a volcanic eruption event by foreign authorities (4marks)
- (f) State **FOUR** responsibilities of an incident commander in a disaster occurrence (4 marks)

QUESTION TWO

- (a) Define Disaster Mitigation: and discuss the major mitigation measures (10 marks)
- (b) Outline **FIVE** antifire practices (5 marks)

QUESTION THREE

Describe how a country like Kenya experiencing a prolonged drought will cope with the situation (15 marks)

QUESTION FOUR

Discuss the effects of tropical cyclones in coastal communities (15 marks)

QUESTION FIVE

Explain the role of FIVE critical partners in tackling a disaster occurrence (20 marks)