



TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN MARINE RESOURCE MANAGEMENT
BSMR 14S/YEAR 4/ SEMESTER 1
BDS 4431: DISASTER RISK AND RISK MANAGEMENT
SPECIAL/ SUPPLEMENTARY EXAMINATIONS
SERIES: SEPTEMBER 2018
TIME: 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.

Mobile phones are NOT allowed in the examination room

QUESTION ONE. (30 MARKS)

- a) Define the following terms [5Mks]
- i) Mitigation
 - ii) Preparedness
 - iii) Risk Reduction
 - iv) Tsunami
 - v) Flood
- b) i) Outline two ways that buildings can be designed to cope with earthquakes. [2Mks]
- ii) Briefly explain three components of disaster management [3Mks]
- c) i) Distinguish between natural hazards and disasters [2Mks]
- ii) List any three natural hazards [3Mks]
- d) Define the following basic flood preparedness measures [5Mks]
- i. Planning
 - ii. Warning
 - iii. Medical
 - iv. Communication
 - v. Essential services

e) For each case highlight:

i) Three post disaster activities in case of a volcanic eruption event by foreign authorities [3Mks]

ii) Two post disaster activities in case of a flood event by local authorities [2Mks]

f) i) What is “Emergency first aid” [2Mks]

ii) Outline three indicators of early warning and contingency planning for disasters [3Mks]

QUESTION TWO (20 MARKS)

Discuss the impacts of climate change on natural disasters [20Mks]

QUESTION THREE (20 MARKS)

Describe how a country experiencing a prolonged drought will cope with the situation [20Mks]

QUESTION FOUR (20 MARKS)

Explain in detail the causes and effects of natural and technological hazards [20Mks]

QUESTION FIVE (20 MARKS)

Discuss the effects of tropical cyclones on coastal communities [20Mks]