

UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH

MAIN EXAMINATION PAPER DECEMBER 2018

TITLE OF PAPER : DISASTER MANAGEMENT AND RESPONSE
COURSE CODE : EHS 437
DURATION : 2 HOURS
MARKS : 100 MARKS
INSTRUCTIONS : READ THE QUESTIONS & INSTRUCTIONS
CAREFULLY
: THE PAPER IS COMPOSED OF FIVE
QUESTIONS
ANSWER ANY FOUR QUESTIONS
: EACH QUESTION CARRIES 25 MARKS
: WRITE NEATLY & CLEARLY
: NO PAPER SHOULD BE BROUGHT INTO NOR
OUT OF THE EXAMINATION ROOM
: BEGIN EACH QUESTION ON A SEPARATE
SHEET OF PAPER

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY
THE INVIGILATOR

Question one

- a) Provide a definition of each of the under-mentioned disaster management principles.
- b) Provide an interpretation using examples of each of the definitions.
 - Risk [5 marks]
 - Hazard [5marks]
 - Vulnerability [5marks]
 - Capacity [5marks]
 - Impact [5marks]

Question two

- a) Give the mathematical formula for risk [3marks]
- b) Explain in detail structural and non-structural mitigation measures. [7marks]
- c) Explain disaster risk assessment. In relation to disaster management, discuss the importance of conducting a disaster risk assessment [15 marks]

Question three

- a) Using a simple diagram, describe the components of the disaster management cycle. [6 marks]
- b) Explain the three core principles of the Humanitarian Charter. Why are these principles important in disaster management [15marks]
- c) Write a short note on paradigm shift in disaster management in Eswatini. [4 marks]

Question four

- a) Describe the role of EOC for the Disaster Management. [5 marks]
- (b) Describe the role of Land use planning and development regulations in Disaster management. [5 marks]
- c) GIS is a powerful tool that can support decision making in all phases of disaster management. Explain [10 marks]
- d) What are the factors that affect people's vulnerability to disasters [5 marks]

Question 5

- a) Using a disaster of your choice with appropriate examples, explain the direct and indirect effects of this disaster [12 marks]
- b) For the disaster you have chosen in (a) describe various relief and rehabilitation activities during natural disaster. [5 marks]
- c) Discuss the essential features of damage assessment [4 marks]
- d) Describe the role of non- governmental and government ministries or departments in disaster risk reduction in Eswatini. [4marks]

