



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
HIGHER DIPLOMA IN COMMUNITY HEALTH
SPECIAL AND SUPPLEMENTARY EXAMINATION 2026

UNIT CODE: HDCH 133

UNIT NAME: Disaster Risk Management

DATE:

TIME: Two Hours

Start:

Finish

INSTRUCTIONS

1. This exam is marked out of 60 marks
2. This Examination comprises TWO Sections

Section A: Compulsory Question (20 marks)

Section B: Long Answer Questions (40 marks)

SECTION A: SHORT ANSWER QUESTIONS (20 MARKS)

Answer ALL questions.

1. Define the following concepts: (3 Marks)
 - a) Disaster Risk Reduction (DRR)
 - b) Emergency
 - c) Hazard Analysis
2. State three (3) disaster causal factors. (3 Marks)
3. Distinguish between response and recovery phases of disaster management. (3 marks)
4. Identify four (4) types of hazards common in your region and classify them. (4 marks)
5. Highlight three (3) components of community hazard, risk and capacity mapping. (3 marks)
6. State two (2) institutional disaster risk reduction strategies. (2 marks)
7. Outline two (2) roles of first aid in emergency response. (2 marks)

SECTION B: LONG ANSWER QUESTIONS (40 MARKS)

Answer TWO questions

8. After a prolonged drought, the local population suffers from food insecurity and malnutrition.
 - a) Identify five key nutrition and food security challenges in drought-affected communities. (5 marks)
 - b) Discuss five strategies for providing nutrition support and emergency food assistance during disasters. (10 marks)
 - c) Explain how healthcare services should be organized to prevent disease outbreaks in drought-affected areas. (5 marks)
9. An earthquake of magnitude 6.8 has struck a densely populated urban area, destroying buildings and causing casualties. Emergency services are overwhelmed.
 - a) Using the disaster risk equation, analyze why this urban area experienced such high losses. (8 Marks)
 - b) Describe Six risk reduction measures could have minimized the impact (12 Marks)

10. A warehouse storing flammable chemicals catches fire in an industrial area. The fire risks spreading to nearby residential zones.

a) Explain four types of hazards on the community and environment. (8 Marks)

b) As the incident commander, describe six steps for fire prevention and management. (12 Marks)

