

**BOTSWANA COLLEGE OF DISTANCE AND OPEN LEARNING**

**CERTIFICATE IN DISASTER MANAGEMENT**

**INTRODUCTION TO DISASTER MANAGEMENT**

**ID 011**

**SPECIAL EXAMINATION**

**Marks: 100**

**Duration: 3hours**

**Instructions to students:**

1. The examination consists of **Four** sections: A, B, C and D
2. Begin each answer to a new question on a new page
3. Answer all the questions according to instructions given in each section
4. Write answers in the answer booklet provided
5. Write in grammatical English

**SECTION A: Multiple-choice questions. [10 Marks]**

**Answer all the questions by choosing the best answer from the alternatives given.**

1. The emergency operational plan includes the following except \_\_\_\_\_.
  - a. Development plan
  - b. Administration and logistics
  - c. Concept of operations
  - d. Standard operational procedures
  
2. \_\_\_\_\_ is the phase at which the emergency operational plan is developed.
  - a. Mitigation
  - b. Preparedness
  - c. Response
  - d. Recovery
  
3. Actions taken at the onset of a disaster is known as \_\_\_\_\_.
  - a. Response Mechanism
  - b. Emergency preparedness
  - c. Logistics readiness
  - d. Remittance
  
4. Advancement in society, economics and politics for a better lifestyle is \_\_\_\_\_.
  - a. Improvement
  - b. Growth
  - c. Development
  - d. Advancement

5. Humanitarian is defined as the \_\_\_\_\_.
- Elimination of pain and suffering to promote welfare of humanity
  - Paying resources to assist post disaster
  - Private and public assistance of people affected by a disaster
  - Removing hazardous material and making the environment safe
6. Safety measures that provide a sense of protection are termed as \_\_\_\_\_.
- Reconstruction
  - Rehabilitation
  - Recovery
  - Security
7. Involvement of community based women's organisation usually at the \_\_\_\_\_ phase.
- Recovery
  - Preparedness
  - Response
  - Mitigation
8. Legislation is usually considered at \_\_\_\_\_ stage.
- Preparedness
  - Response
  - Mitigation
  - Recovery
9. Which disaster is regarded advantageous to the environment?
- Hurricane
  - Tsunami
  - Floods
  - Landslide

10. \_\_\_\_\_ is not associated with earthquakes.
- a. Magnitude
  - b. Epicentre
  - c. Fault
  - d. Seismic sea wave



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**SECTION B: True/False questions. [10 Marks]**

**Indicate if the statement is True or False**

1. Donor investment do not influence development opportunities post disaster.
2. There is a shorter-term benefit of disasters in restructuring a nation.
3. Disaster highlights areas of vulnerability of a country.
4. Documentation provides evidence of occurrence of events during recovery.
5. Long term and short term response activities may overlap during implementation.
6. The International Committee of Red Cross (ICRC) always ensures civilian protection post disaster.
7. Disaster can create development opportunities.
8. It is essential to up-date resource inventory before a disaster occurs.
9. It is highly recommended to establish memorandum of understanding between stakeholders pre-disaster.
10. The disaster risk reduction consists of activities to be implemented before, during and after a disaster.



**SECTION C: Short answer questions.**

**[30 Marks]**

**Answer all questions in this section.**

**QUESTION 1**

Briefly explain the following terms:

- a. Disaster management cycle. **(2 marks)**
- b. Risk management. **(2 marks)**
- c. Memorandum of understanding. **(2 marks)**

**QUESTION 2**

Distinguish between the following terms:

- a. Structural and non-structural mitigation. **(2 marks)**
- b. Disaster and emergency. **(2 marks)**
- c. Risk and vulnerability. **(2 marks)**
- d. Sudden and slow onset. **(2 marks)**
- e. Natural and non-natural disasters. **(2 marks)**

**QUESTION 3**

- a. Explain the following mitigation measures:
  - i. Strengthening urban utility system and industrial support. **(2 marks)**
  - ii. Incorporation of resistant building techniques in housing. **(2 marks)**
  - iii. Investment in improving administration and strengthening public institutions. **(2 marks)**
  - iv. Opportunities offered by agricultural and forestry. **(2 marks)**



**QUESTION 4**

- a. Explain the importance of disaster risk reduction (DRR). **(3 marks)**
- b. State three (3) technologies that can be used during response. **(3 marks)**

**SECTION D: Essay-type questions. [50 Marks]**

**Answer any two questions in this section.**

**QUESTION 1**

- a. Analyse long-term development programmes that can be implemented to alleviate water shortages in Botswana for structural and non-structural mitigation. **(10 marks)**
- b. Discuss any three (3) response activities in disaster management you are familiar with. **(15 marks)**

**QUESTION 2**

- a. Draw and label a disaster management cycle. **(5 marks)**
- b. With the aid of examples, discuss the four (4) phases of a disaster management cycle. **(20 marks)**

**QUESTION 3**

- a. Critique the Ebola recovery plan developed below and recommend alternative solutions where possible. **(21 marks)**

**Ebola Recovery Plan**

- i. Gathering basic information: conduct interviews in the community to determine source of disease.
- ii. Organising recovery: NDMO will spear head all recovery activities by engaging relevant departments.
- iii. Mobilizing resources for recovery: Mobilise rehabilitation through kgotla, local clinics and social work services for affected families.



- iv. Administer activities: NDMO will spear head administrations. A national sub-committee can be formed consisting of MOH, BDF, Botswana Police, Private sector to ensure the committee goes back to normal.
  - v. Regulating recovery: Each department engaged by NDMO shall be responsible in regulating recovery activities and shall report back to NDMO committee.
  - vi. Coordinating recovery activities: coordination of recovery activities will be through NDMO. NDMO shall lease with various departments from MOH to ensure the community goes back to normal. Update messages shall be publicized through electronic and print media by NDMO to avoid national panic.
  - vii. Evaluating recovery: DMC office shall monitor and evaluate implemented recovery measures for future improvements.
- b. Explain the following mitigation strategies:
- i. Adjusting normal development to reduce loss. **(2 marks)**
  - ii. Economic diversification. **(2 marks)**

***END OF THE PAPER!***