

**DISASTER MANAGEMENT  
(DIMA 5116)**

**Time Allotted : 3 hrs**

**Full Marks : 70**

*Figures out of the right margin indicate full marks.*

*Candidates are required to answer Group A and  
any 5 (five) from Group B to E, taking at least one from each group.*

*Candidates are required to give answer in their own words as far as practicable.*

**Group - A  
(Multiple Choice Type Questions)**

1. Choose the correct alternative for the following: **10 × 1 = 10**
  - (i) Cyclones occurring in North Atlantic ocean are called
 

(a) Typhoon	(b) Hurricanes
(c) Tornado	(d) none of (a), (b) and (c) .
  - (ii) Which of the following organizations is the apex authority of disaster management in India?
 

(a) NDA	(b) NDMA
(c) CDMA	(d) INDR.
  - (iii) The Indian Tsunami Early Warning Centre (ITEWC) established at Indian National Centre for Ocean Information Sciences is located in
 

(a) Chennai	(b) Goa
(c) Kochi	(d) Hyderabad.
  - (iv) A disease that becomes unusually widespread and even global in its reach is referred to as
 

(a) Epidemic	(b) Pandemic
(c) Spanish flu	(d) Hyperendemic.
  - (v) International Tsunami Information Centre is in?
 

(a) Honolulu	(b) Goa
(c) Jakarta	(d) Pondicherry.
  - (vi) Of the following which one is not a natural disaster
 

(a) Nuclear explosion	(b) Deforestation
(c) Forest Fire	(d) Lightning.
  - (vii) Effective hazard management largely rely on
 

(a) Govt. agencies	(b) Emergency responses
(c) Pre-disaster planning	(d) Volcanoes.

- (viii) Which of the following best defines a disaster?
  - (a) Any event that results in multiple deaths
  - (b) Devastation that cannot be relieved without assistance
  - (c) Devastation that covers a broad geographical area
  - (d) When the event results in multiple injuries and deaths as well as property damage.
- (ix) The Richter scale expresses an earthquakes
 

(a) Magnitude	(b) Location
(c) Duration	(d) Depth.
- (x) Which of the following typically leads to increased risk for a population?
 

(a) Urbanization	(b) Coastal Migration
(c) Both (a) and (b)	(d) Neither (a) nor (b).

**Group - B**

2. (a) What are the different sub-phases of pre-disaster phase, impact phase and post-disaster phase?
- (b) Discuss the characteristics of disillusionment phase in post-disaster scenario.
- (c) Why are mock drills performed in preparedness phase? **5 + 4 + 3 = 12**
3. (a) What is known as Golden hour in disaster management? Explain the tasks to be performed in the golden hour.
- (b) In which phase of disaster management the following activities are performed?
  - (i) Vulnerability analysis
  - (ii) Mock drills
  - (iii) Search & rescue
  - (iv) Claims processing.
- (c) Justify the benefit of Critical Incident Stress Debriefing (CISD) during disaster recovery phase. **(2 + 3) + 4 + 3 = 12**

**Group - C**

4. (a) What information is obtained by risk analysis? How it helps in mitigating the effect of disaster?
- (b) What is "triage" in the context of medical preparedness? What is the use of multipurpose cyclone shelters? In which region of India multipurpose cyclone shelters are built? **(3 + 3) + (2 + 2 + 2) = 12**

5. Define the following terms:

- (i) Hazard
- (ii) Vulnerability
- (iii) Mitigation
- (iv) Risk
- (v) Capacity
- (vi) Early Warning.

**(6 × 2) = 12**

**Group - D**

6. (a) Explain the utility of Rapid Assessment Form (RAF)? In which phase of disaster management RAF is used? List the sectors for which information are provided in RAF.
- (b) Briefly discuss the scopes of using technologies in different phases of disaster?

**(3 + 2 + 3) + 4 = 12**

7. (a) Why is situation awareness an important aspect of disaster management? What is the traditional process of gathering situational information?
- (b) Discuss about various crowd sourcing mechanisms used for situation awareness in post disaster scenario.

**(3 + 3) + 6 = 12**

**Group - E**

8. (a) What is SPHERE standard? What is the need for formulating SPHERE standard?
- (b) What is the full form of WASH? In which context of disaster management WASH is used?

**(2 + 4) + (2 + 4) = 12**

9. (a) Explain the data flow for India Disaster Resource Network (IDRN) database with the help of a diagram. Who coordinates the process of data collection in IDRN?
- (b) Write short note on Hyogo framework.

**(5 + 1) + 6 = 12**