

**DISASTER MANAGEMENT
(DIMA 5116)**

Time Allotted : 2½ hrs

Full Marks : 60

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 4 (four) from Group B to E, taking one from each group.*

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

Group - A

1. Answer any twelve:

12 × 1 = 12

Choose the correct alternative for the following

- (i) Disaster Management includes
(a) Mitigation (b) Reconstruction
(c) Rehabilitation (d) All of these.
- (ii) National Institute of Disaster Management is at
(a) Manipur (b) Punjab (c) Hyderabad (d) New Delhi.
- (iii) Which of the following organizations is the apex authority of disaster management in India?
(a) NDA (b) NDMA (c) CDMA (d) INDR.
- (iv) 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.
- (v) 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.
- (vi) The instrument which records earthquake wave is called
(a) Climograph (b) Seismograph
(c) Hythergraph (d) None of the above.
- (vii) Imagine that you are in an area and an earthquake occurs, which of the following safety measures you will follow?
(a) Stay in the open area, away from building
(b) Run into nearest building
(c) Get under the nearest tree
(d) Run out of the park, to the road.

- (viii) Which of the following is not a phase of disaster management?
 (a) Resource (b) Mitigation
 (c) Response (d) Recovery.
- (ix) Zika virus is spread by which of the following?
 (a) Pig (b) Fly (c) Mosquito (d) Rat.
- (x) Cyclones occurring in North Atlantic Ocean are called
 (a) Typhoon (b) Hurricanes
 (c) Tornado (d) None of the above.

Fill in the blanks with the correct word

- (xi) The Disaster Management Act of India was made in the year _____.
- (xii) Full form of WASH is _____.
- (xiii) NDRF is the acronym of _____.
- (xiv) International committee of _____ now maintain and update the name of cyclones.
- (xv) Tsunami is a term coined by _____.

Group - B

2. (a) How can you describe the size or severity of a disaster? Discuss the scale of measurement of Tsunami intensity? [[CO1](Understand/LOCQ)]
- (b) Why are awareness programmes conducted in preparedness phase? [[CO1](Understand/LOCQ)]
- (2 + 6) + 4 = 12**
3. (a) Give an example of a technological disaster. [[CO1](Remember/LOCQ)]
- (b) Which type of disaster is "Russia-Ukraine war"? Examine the impact faced by the affected community during "Russia-Ukraine war". [[CO1](Analyse/IOCQ)]
- (c) Compare and contrast the emotional expressions of victims observed during post disaster heroic phase and honeymoon phase. [[CO1](Analyse/IOCQ)]
- 2 + (1 + 3) + 6 = 12**

Group - C

4. (a) Describe the relationship between hazard and disaster. Discuss the different modes in which hazard may be present. [[CO2](Understand/LOCQ)]
- (b) Analyse the causes of global warming and suggest the steps required to reduce the effect of global warming. [[CO2](Analyse /IOCQ)]
- (2 + 4) + (3 + 3) = 12**
5. (a) What is the Golden hour in disaster management? Explain the tasks to be performed in the golden hour. [[CO2](Understand/LOCQ)]
- (b) In which phase of disaster management the following activities are performed?
 (i) Mock drills
 (ii) Search & rescue

(iii) Claims processing.

[[CO2](Understand/LOCQ)]
(2 + 4) + (2 + 2 + 2) = 12

Group - D

6. (a) Discuss various types of vulnerability with examples. *[[CO3](understand/LOCQ)]*
(b) Discuss about the various categories of web and mobile applications available for disaster management. *[[CO4](Remember/LOCQ)]*
6 + 6 = 12
7. (a) Discuss with diagram the Institutional framework for disaster management in India. *[[CO3](Remember/LOCQ)]*
(b) What is the role of UNISDR in the context of disaster management? *[[CO4](Remember/LOCQ)]*
(c) Discuss the utilities of HAM radio during disaster. *[[CO4](Analyse/IOCQ)]*
6 + 3 + 3 = 12

Group - E

8. (a) Discuss the advantage of IRDN in the context of disaster management. How IRDN works? *[[CO5](Understand/LOCQ)]*
(b) Discuss the features of the following disaster management apps.
(i) Outbreaks near me App
(ii) Evacuation Shelters App by American Red Cross. *[[CO6](Remember/LOCQ)]*
(3 + 3) + (3 + 3) = 12
9. (a) Describe the seven global targets and the four priorities for action in Sendai framework. *[[CO5](Analyse/HOCQ)]*
(b) Discuss the process of rapid damage and need assessment using RAF. *[[CO6](Remember/LOCQ)]*
8 + 4 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	68.75	22.92	8.33

Course Outcome (CO):

After the completion of the course students will be able to

DIMA5116.1: Define and classify disaster, explain various phases of disaster management cycle, describe the size or intensity of a disaster, learn to use various terminologies related to disaster management.

DIMA5116.2: Identify different types of hazards and vulnerability, understand the process of hazard analysis and vulnerability assessment.

DIMA5116.3: Learn the national disaster management act, national institutional framework and various resource & knowledge networks available for disaster management in our country.

- DIMA5116.4:** Understand the application of current tools and technologies for prediction and early warnings of disaster as well as in other phases of disaster management.
- DIMA5116.5:** Develop an understanding of the frameworks for disaster risk reduction and implementing agencies at national and international level.
- DIMA5116.6:** Explain best practices and humanitarian standards followed in various phases of disaster management.

**LOCQ: Lower Order Cognitive Question; IOCQ: Intermediate Order Cognitive Question; HOCQ: Higher Order Cognitive Question.*