

**DISASTER MANAGEMENT
(DIM5116)**

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) What is it called when a large number of people in a community get a disease at the same time?
(a) Influx (b) Black death
(c) Epidemic (d) Parasite
- (ii) Which of the following is a primary objective of the mitigation phase in disaster management?
(a) Immediate rescue and relief operations
(b) Rebuilding damaged infrastructure
(c) Reducing the impact of future disasters
(d) Stockpiling emergency supplies
- (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) Mock drills exercise to create awareness among people are conducted at
(a) State level (b) District level
(c) GP/Village level (d) All of the above
- (v) According to the Indian Meteorological Department (IMD), which storm is classified as a “Super cyclone” when the wind blows at whatever speed?
(a) Above 200 km (b) Above 110 km
(c) Above 220 km (d) None of the above
- (vi) Installing smoke detectors and fire alarms in buildings is part of which disaster management phase?
(a) Recovery (b) Preparedness
(c) Mitigation (d) Response

- (vii) Which of the following activities is covered by Disaster management before, during or after a disaster?
 (a) Reconstruction and Rehabilitation (b) Mitigation
 (c) Emergency response (d) All the above
- (viii) What are the three phases of disaster management planning?
 (a) Evacuating, Rebuilding and Re-branding
 (b) Preparation, Planning and Perception
 (c) Planning, Evacuating and Recovery
 (d) Preparation, Response and Recovery
- (ix) Mechanisms established under Disaster Management Act, 2005 include?
 (a) National Disaster Management Authority
 (b) State Disaster Management Authority
 (c) District Disaster Management Authority
 (d) All the above
- (x) SAARC Disaster Management Centre is at?
 (a) Dhaka (b) Coloumbo
 (c) New Delhi (d) Khatmandu

Fill in the blanks with the correct word

- (xi) UNISDR stands for _____.
- (xii) A cyclone is called a _____ in Philippines and Japan.
- (xiii) The National Civil Defence college was founded in 1957 at _____.
- (xiv) The term Tsunami is coined from _____.
- (xv) The use of _____ for real-time monitoring of floods and earthquakes is an example of applying technology in disaster management.

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) What is the Golden hour in disaster management? Explain the tasks to be performed in the golden hour. [[CO2](Understand/LOCQ)]
- (2 + 4) + (2 + 4) = 12**
3. (a) Why are awareness programmes conducted in preparedness phase? [[CO2] (Understand/LOCQ)]
- (b) Why are mock drills performed in preparedness phase? [[CO2](Remember/LOCQ)]
- (c) "Disaster management steps are referred as a cycle" – justify. [[CO1] (Analyse/IOCQ)]
- 3 + 3 + 6 = 12**

Group - C

4. (a) Discuss the role of the following agencies in the context of disaster management.
 (i) NIDM (ii) NDRF. [[CO3] (Remember/LOCQ)]

- (b) How are the damages in masonry building measured after a disaster?
[[CO3] (Remember/LOCQ)]
(4 + 4) + 4 = 12
5. (a) What is the relationship between the terms Risk, Hazard, Exposure, Vulnerability and Capacity?
[[CO3] (understand/LOCQ)]
 (b) “Effective hazard management largely rely on Pre-disaster planning” – Justify
[[CO3] Analyse/IOCQ]
6 + 6 = 12

Group - D

6. (a) Discuss the utilities of HAM radio during disaster. In which phase of disaster management HAM radio can be used?
[[CO4] (Understand/LOCQ)]
 (b) “Accurate Damage and Need assessment is the key to effective disaster management” - Critically judge the statement.
[[CO4] (Evaluate/HOCQ)]
(4 + 2) + 6 = 12
7. (a) Why is situation awareness an important aspect of Disaster management? What is the traditional process of gathering situational information?
[[CO4] (Remember/LOCQ)]
 (b) Illustrate various crowd sourcing mechanisms used for situation data collection in post disaster scenario.
[[CO4] (Analyse /IOCQ)]
(2 + 4) + 6 = 12

Group - E

8. (a) Describe the Sendai Framework for Disaster Risk Reduction. Explain the four action priorities of Sendai Framework.
[[CO5] (Remember/LOCQ)]
 (b) Describe the features available in existing weather alert generation app like Tornadospy or StormShield. What is the role of the organization NOAA in the context of alert generation app?
[[CO6] (Remember/LOCQ)]
(4 + 2) + (4 + 2) = 12
9. (a) Define the recovery phase in disaster management. How does it differ from the response phase?
[[CO5] (Understand/LOCQ)]
 (b) Explain how Geographic Information Systems (GIS) and Remote Sensing are used in disaster risk assessment and preparedness.
[[CO6] (Understand/LOCQ)]
(3 + 3) + 6 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	75	18.75	6.25

