

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE - RAIGAD - 402 103
Winter Semester Examination - December - 2017**

Branch: M.Tech. (Construction Technology and Management)

Semester: I

Subject with Subject Code:- CVCTM-E2/01

Construction Disaster Management Marks: 60

Date:-

Time: 3 Hrs.

Instructions to the Students

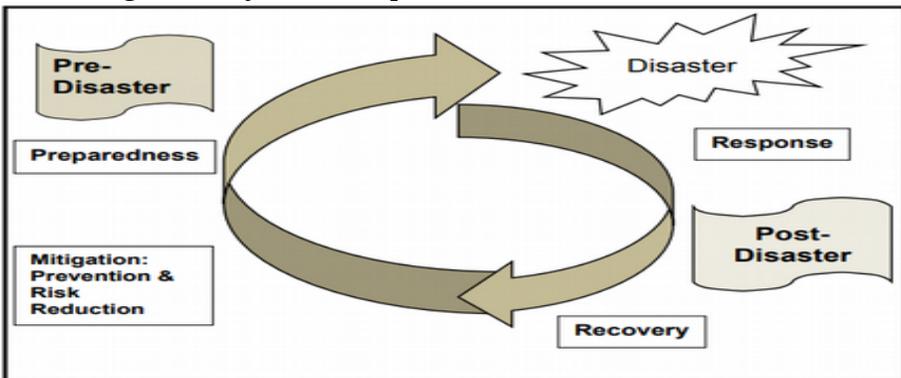
1. Each question carries 12 marks.
 2. Attempt any five questions of the following.
 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.
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		(Marks)
Q.1.	<p>Define Hazard and disaster, and explain pre flood mitigation measures.</p> <p>Answer: Hazard is a condition/event that has potential for causing injury/ loss of life or damage to property/environment.</p> <p>Disaster is an event that occurs suddenly/unexpectedly in most cases and disrupts the normal course of life in affected area; results in loss or damage to life property or environment and is beyond the coping capacity of local affected population/society and therefore requires external help.[Imagine you are in the desert and earthquake occurs. Now earthquake is a hazard.but in open desert it does not make in damage to you. No threat to your life. So it does not become disaster. It remains as a hazard. Now imagine earthquake in a city. There buildings collapse, people die or are injured, normal life is disrupted. This is disaster situation]</p> <p>Pre-flood Mitigation Measures: (Explain following in brief)</p> <p>a. Mitigation of floods: - Data Collection and Analysis - Vulnerability Reduction</p> <p>b. Preparation for Floods -Prediction - Emergency Preparedness (including monitoring, alerts) - Education, Training and Awareness</p>	(12)
Q.2.	<p>Enlist various manmade disaster and explain in detail any one Industrial Failure causing disaster.</p> <p>Answer: Explain about Bhopal Gas tragedy or Japan Nuclear Plant Emission or any similar, Enlist various views on its prevention.</p>	(12)
Q.3.	<p>Explain NDMP (National Disaster Management Plan), its scope and Objectives.</p>	(12)

Scope: As per the DM Act 2005, the National Plan shall include: a. Measures to be taken for prevention of disasters or the mitigation of their effects b. Measures to be taken for the integration of mitigation measures in the development plans c. Measures to be taken for preparedness and capacity building to effectively respond to any threatening disaster situations or disaster d. Roles and responsibilities of different Ministries or Departments of the Government of India in respect of measures of the three aspects mentioned above

Objectives:

- 1) Improve the understanding of disaster risk, hazards, and vulnerabilities
- 2) Strengthen disaster risk governance at all levels from local to centre
- 3) Invest in disaster risk reduction for resilience through structural, non-structural and financial measures, as well as comprehensive capacity development
- 4) Enhance disaster preparedness for effective response
- 5) Promote “Build Back Better” in recovery, rehabilitation and reconstruction
- 6) Prevent disasters and achieve substantial reduction of disaster risk and losses in lives, livelihoods, health, and assets (economic, physical, social, cultural and environmental)
- 7) Increase resilience and prevent the emergence of new disaster risks and reduce the existing risks
- 8) Promote the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures to prevent and reduce hazard exposure and vulnerabilities to disaster
- 9) Empower both local authorities and communities as partners to reduce and manage disaster risks
- 10) Strengthen scientific and technical capabilities in all aspects of disaster management
- 11) Capacity development at all levels to effectively respond to multiple hazards and for community-based disaster management
- 12) Provide clarity on roles and responsibilities of various Ministries and Departments involved in different aspects of disaster management
- 13) Promote the culture of disaster risk prevention and mitigation at all levels
- 14) Facilitate the mainstreaming of disaster management concerns into the developmental planning and processes

<p>Q.4.</p>	<p>Emergency Management Module in collapse of High rise structures. Answer: (answer may elaborated) Prevention: use of Proper building codes and execution to prevent Management: Sign Boards, alarming system, equipments, coordination, early medical response, etc.</p>	<p>(12)</p>
<p>Q.5.</p>	<p>Write a detail note on use of Advanced technologies in disaster management. Answer: Brief of technologies helpful as GPS, GIS, Information technology, Internet, radio, etc.</p>	<p>(12)</p>
<p>Q.6.</p>	<p>Give Disaster management Cycle and explain each term in brief.</p> 	<p>(12)</p>

Please Note: Solution to answer is guidelines and there may be more parallel way to present the answer.