

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2025		
(B. Tech) Program: All Branches Scheme : II		
Regular Examination: LY Semester: VII		
Course Code: ILC7057 and Course Name: Disaster Management and Mitigation Measures		
Date of Exam: 04.12.2025	Duration: 02.5 Hours	Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q.No	Questions	Max. Marks	CO	BT level
Q1	Solve any two questions out of three. (05 marks each)	10		
a.	What are the short term and long term effects of disasters?		1	U
b.	What are different types of flood? Enlist structural mitigation measures for flood.		2	U
c.	What is role of NGOs in disaster management? Enlist major NGOs working on disaster management.		5	U
Q2	Solve any two questions out of three. (05 marks each)	10		
a.	Describe the applications of GIS in disaster management, highlighting its role in spatial analysis, risk assessment, and decision-making.		4	U
b.	What are different government agencies responsible for various types of Disasters? Mention their roles and responsibilities.		5	U
c.	Differentiate structural and Non-structural Mitigation.		6	U
Q3.	Solve any two questions out of three (10 marks each)	20		
a.	Provide an overview of various types of Manmade disasters, elucidating their causes, characteristics, and impacts.		2	U
b.	Explore the scope and responsibilities of the NDMA and NIDM in disaster Management in India.		5	U
c.	Comment of Disaster Management policies and rescue operations.		3	An

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Q4.1.	Solve any two questions out of three (10 marks each)	20		
a.	Explain the Do's and don't's in disasters and implementation of relief aids.		6	U
b.	a. Describe the objectives and importance of Disaster Management policies. b. Application of Remote sensing and GPS in Disaster Management.		3,4	An
c.	Comment on Climate Change? What are the effects of Global Warming?		2	U
