



VIT

Vellore Institute of Technology

SLOT: G1+TG1

REG. NO.:

**SCHOOL OF CIVIL ENGINEERING
CONTINUOUS ASSESSMENT TEST - I
FALL SEMESTER 2025-2026**

Programme Name & Branch	: B. Tech – Civil Engineering	
Course Code	: BCLE212L	
Course Name	: Natural Disaster Mitigation and Management	
Faculty Name(s)	: Dr. T. Shanmuga Priya & Prof. John Sushil Packiaraj	
Class Number(s)	: VL2025260104339, VL2025260104326	
Date of Examination	: 23.08.25	
Exam Duration	: 90 minutes	Maximum Marks: 50

General instruction(s):

- Answer All Questions
- **Course Outcome Statements:**
 - CO 1: Understand the safety precautions and how to handle the disasters.
 - CO 2: Develop skills in different disasters and its mitigation methods.

Q. No	Question	M	CO	BL
1.	a) Explain the Sendai Framework for Disaster Risk Reduction. (5 Marks)	10	CO1	2
	b) What is the role of the National Disaster Management Authority (NDMA) in the effective management of disasters? (5 Marks)			
2.	Elaborate the various phases of the Disaster Management Cycle. Also, discuss some of the challenges faced during each phase.	10	CO1	2
3.	Discuss the flood management measures practiced in India to reduce flood losses and protect floodplains.	10	CO2	3
4.	With the help of a neat diagram, explain the formation of a tropical cyclone and discuss the structural and non-structural measures for mitigating its effects.	10	CO2	2
5.	Explain the causes of drought and classify its types, highlighting their socio-economic and environmental impacts.	10	CO2	3
