



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

SLOT: F1+TF1

REG. NO.:

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

Programme Name & Branch : B.Tech (Open Elective)
Course Code : BCLE212L
Course Name : Natural Disaster Mitigation and Management
Faculty Name(s) : Dr. Prasanth S
Class Number(s) : VL2025260505659
Date of Examination : 01.02.2026
Exam Duration : 90 minutes

Maximum Marks: 50

General instruction(s):

- Answer All Questions
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- 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.

CO 3: Examine how quickly to response and prepared for different disasters

Q. No	Question	M	CO	BL
1.	How the term hazard, exposure, and vulnerability are related to disaster risk? Discuss about <u>Pre-disaster phases</u> in Disaster Management Cycle.	10	1	1
2.	Explain the priorities outlined in the Sendai and Hyogo Framework. Suggest the effective ways in implementing Sendai priorities in the current context.	10	1	2
3.	Explain the major causes of drought and apply your understanding to classify the different types of droughts. Further, propose suitable and innovative mitigation measures to reduce the impacts of drought.	10	3	3
4.	Explain the difference between temperate and tropical cyclone. Discuss about formation of cyclone with neat sketch.	10	2	2
5.	Describe the need of disaster risk reduction and elaborate the formation of disaster management act in India. Explain about various <u>nodal agencies</u> associated with the Disaster Management Authority (NDMA).	10	1	2
