SLOT: F2+ TF2

VIT

Vellore Institute of Technology

SCHOOL OF CIVIL ENGINEERING
CONTINUOUS ASSESSMENT TEST – II
FALL SEMESTER 2024-2025

Programme Name & Branch	: B.Tech (Open Elective)
Course Code	: BCLE212L
Course Name	: Natural Disaster Mitigation and Management
Faculty Name(s)	: Dr. Prasanth S; Dr. Arunava Ray
Class Number(s)	: VL2024250105143; VL2024250105142
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 Outcomes (Type the CO statements covered in this question paper. Use the CO number a per the syllabus copy)
  1. Understand the safety precautions and how to handle the disasters.
  2. Develop skills in different disasters and its mitigation methods.
  3. Examine how quickly to response and prepared for different disasters.
  5. Learn the current affairs on disaster management and resilience to disasters.

Q. No	Question	M	CO	BL
1.	How will an earthquake of magnitude 4 in Chennai affect the expected magnitude and intensity of seismic activity in Chennai, Vellore, and Goa? Explain in detail how an effective early warning system for earthquakes can be developed.	10	2	4
2.	How do industrial disasters differ from chemical disasters? As a disaster management student, how would you identify regions highly vulnerable to chemical and industrial disasters, and what pre-disaster measures would you suggest?	10	3	4
3.	What are the different types/modes of accidents? Explain how to reduce the occurrences of accidents in each mode by incorporating the latest technologies.	10	1	3
4.	How the factors responsible for triggering a landslide is different for Western Ghat (Nilgiri) hill slopes and the Himalayan hill slopes? How can we prevent these landslides from happening?	10	5	2
5.	How is a biological disaster different from a nuclear disaster? How to prevent or minimise the occurrence of biological and nuclear disasters?	10	2	2

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