



VIT

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

REG. NO.:

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

Programme Name & Branch : B.Tech / 5 Years Integrated
Course Code and Course Name : BCLE212L and Natural Disaster Mitigation and Management
Slot(s) : F2+TF2
Faculty Name(s) : Dr. Arunava Ray, Dr. Surendar M & Dr. Priyadharshini B
Class Number(s) : VL2025260505918, VL2025260505660 & VL2025260505919
Date of Examination : 22.03.2026
Exam Duration : 90 minutes **Maximum Marks: 50**

General instruction(s):

- Answer All Questions
- CO – Course Outcome; BL – Blooms Taxonomy Level
 (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)
 CO3: Examine how quickly to respond and prepare for different disasters.

Q. No	Question	M	CO	BL
1.	Assume a magnitude 6.5 earthquake occurs near Delhi. Explain the likely <u>impacts</u> on infrastructure and outline the <u>emergency response</u> measures that authorities should implement immediately after the event.	10	3	2
2.	Assume an outbreak of water-borne diseases such as Cholera. Critically examine how integrating <u>early warning systems</u> , <u>water quality monitoring</u> , and <u>public health response mechanisms</u> can prevent such biological disasters.	10	3	3
3.	Compare the common causes of road, rail, and air accidents and describe the latest safety measures in each system to prevent them.	10	3	2
4.	Compare the disaster dynamics of a residential <u>multi-storey building</u> and a forest fire in the mountains. Analyze the differences in <u>fire spread mechanisms</u> , <u>fuel characteristics</u> , and <u>logistical challenges</u> for responders.	10	3	4
5.	Analyze the <u>environmental</u> and <u>public health consequences</u> of a nuclear disaster from an international armed conflict. Use a case study to discuss the <u>dos and don'ts</u> during a conflict.	10	3	4
