



# 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 - II  
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 : 22.03.2026**  
**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 3: Examine how quickly to response and prepared for different disasters

Q. No	Question	M	CO	BL
1.	City A is the epicentre of an earthquake with a magnitude ( $M_w$ ) of 7.2, while City B is situated 100 kilometres away. Comment on how the magnitude and severity/intensity of the earthquake at cities A and B differed with detailed justification.	10	3	3
2.	Is the Wayanad landslide an example of a systematic failure of the Early Warning System (EWS)? Under which type of slope movement does it fall? Discuss its causes, effects and possible solutions.	10	3	3
3.	Discuss the causes and impact of biological disaster with case studies. Suggest preventive measures to protect ourselves and the community from biological disaster.	10	3	3
4.	How do the socio-economic impacts of air, road and rail accidents require various systematic mitigation frameworks to reduce transport disasters? Mention the advantages and disadvantages of government efforts to reduce air, road and rail accidents.	10	3	4
5.	Festival disasters have been on the rise in recent days. Talk about the list of factors that have contributed to the current rise in festival disasters. Mentioned any recent festival tragedy case study that demonstrates how the government was unable to maintain control. Make proactive suggestions to reduce future festival disasters.	10	3	3

\*\*\*\*\*