



VIT

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

SLOT: G1+TG1

Reg No.:

SCHOOL OF CIVIL ENGINEERING CONTINUOUS ASSESSMENT TEST (CAT) – II WINTER SEMESTER 2024-25

Programme Name & Branch : B.Tech. /5 Years Integrated
Course Code : BCLE212L
Course Name : Natural Disaster Mitigation and Management
Faculty Name(s) : Dr. Priyadharshini. B and Dr. Suganya O M
Class Number(s) : VL2024250503217 and VL2024250503224
Exam Duration : 90 minutes

Maximum Marks: 50

General instruction(s):

- Answer all
- Course Outcomes Statements:
CO. 3: Examine how quickly to respond and prepare for different disasters

Q. No	Question	Marks	Course Outcome (CO)	Bloom's Taxonomy (BL)
1.	Frequent landslides in a mountainous region have been attributed to deforestation, unplanned construction, and intense rainfall. Based on your understanding, identify the key causes and propose a detailed mitigation plan, including engineering solutions, land-use policies, and community-based strategies. Additionally, discuss how these measures can be effectively implemented to ensure long-term sustainability.	10	CO3	BL3
2.	Assume you are part of a public health team responding to an epidemic in two locations: a city and a village. Based on healthcare resources, public awareness, government policies, and community support, propose specific response measures tailored to each setting.	10	CO3	BL3
3.	Discuss the major causes of industrial disasters, including human errors, technical failures, and natural calamities. Using an example, explain how these disasters impact human health and the environment.	10	CO3	BL2
4.	Compare the origins and characteristics of forest and electrical fires. Evaluate the effectiveness of current prevention and mitigation strategies for each type. Suggest innovative approaches to reduce their impact on infrastructure and the environment.	10	CO3	BL2
5.	Propose effective safety measures to reduce road accidents. Evaluate the role of technological advancements, policy changes, and public awareness in enhancing road safety and minimizing casualties.	10	CO3	BL3