



VIT

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

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

SLOT: F1+TF1

Programme Name & Branch : B.Tech / 5 Years Integrated
Course Code and Course Name : BCLE212L
Faculty Name(s) : Dr. Priyadharshini. B
Class Number(s) : Natural disaster mitigation and management
Date of Examination : 18.10.24
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 as per the syllabus copy)

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

CO 5. Learn the current affairs on disaster management and resilience to disasters

Q. No	Question	M	CO	BL
1.	Analyze the causes, types, and safety precautions for the following disasters. Furthermore, evaluate which disaster would pose the most significant challenges for response and recovery. a. An infestation affecting crops in a rural area. b. A nuclear disaster at a power plant. c. A major road accident involving multiple vehicles.	10	1	4
2.	Develop a comprehensive earthquake preparedness plan for a community. Outline specific actions to be taken before, during, and after an earthquake, focusing on safety measures for families, schools, and businesses.	10	3	3
3.	Analyze the 2024 Wayanad landslide disaster, focusing on the contributing factors and the impact on the local community. Discuss the role of heavy rainfall, deforestation, and poor construction practices in triggering the landslide. Additionally, evaluate the effectiveness of the rescue and rehabilitation efforts undertaken by various agencies. How can understanding these factors help formulate better disaster management strategies for future incidents?	10	2	4



VIT

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

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

SLOT: F1+TF1

Q. No	Question	M	CO	BL
4.	<p>The Balasore train collision in Odisha, India, involved three trains: the Coromandel Express, the Howrah Superfast Express, and a stationary goods train. The collision resulted in 275 fatalities and over 1,000 injuries, making it one of the deadliest train accidents in India this century. The accident raised significant concerns about railway safety and operational protocols.</p> <p>Analyze the response of the Indian Railways and local authorities to the Balasore train collision in Odisha in 2023. Discuss the measures taken to improve railway safety and prevent future accidents.</p>	10	3	4
5.	<p>The Nipah virus outbreak in Kerala, India, 2018 was a significant biological disaster, highlighting the challenges of managing zoonotic diseases. The outbreak was traced back to fruit bats, which are natural hosts of the virus. The virus spreads to humans through contaminated fruits and contact with infected bats or other animals. The outbreak resulted in 17 confirmed deaths out of 19 reported cases, causing widespread panic and concern.</p> <p>Evaluate the environmental, economic, and social impacts of the Nipah virus outbreak in Kerala 2018. Assess the response of the Indian government and local health authorities to the outbreak and the measures implemented to prevent future occurrences.</p>	10	5	5
