



**SCHOOL OF CIVIL ENGINEERING**

**Continuous Assessment Test - II, April 2024**

**B.Tech. (Civil Engineering), Winter Semester 2023-24**

<b>Course Code</b>	: CLE1010	<b>Duration:</b>	90 Minutes.
<b>Course Name</b>	: Natural Disaster Mitigation & Management	<b>Max. Marks:</b>	50
<b>Faculty-In-Charge:</b>	Dr. Dillip Kumar Barik	<b>Slot</b>	: G1
<b>Class No</b>	: VI.2023240500952		

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*Answer all the questions*

**Total Marks (5 x10 = 50 Marks)**

1. (a) Explain the causes of earthquakes with respect to the stages of formation of fault line. [5]  
(b) Describe the different pillars of earthquakes management system with suitable examples. [5]
2. Discuss the use of EMS (European Macrocosmic Scale) in natural disaster management. How do the disaster management authorities classify the hazard by assigning different colours to the masonry building just after earthquake? [10]
3. Explain the system architecture and working principle of Wireless Sensor Network (WSN) to predict landslides. [10]
4. Elaborate the detailed classification of earth movement with suitable examples. [10]
5. Identify the flood prone areas with respect to event and fatality rank in India. Enlight the various issues of flood management in India. [10]