

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ODD QUESTION PAPER

Continuous Learning Assessment	: CLA-3	Date	: 17.11.2022
Course Code & Course Name	: 18CEO307T (Disaster Mitigation and Management)	Duration	: 90 minutes
Year / Semester	: 3rd Year/ 5th Semester	Maximum Marks	: 50
Academic year	: 2022-2023 (Odd Semester)	Mode of Exam	: Offline

Course Articulation Matrix																
Course Learning Outcomes (CLO):		Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO - 1	PSO - 2	PSO - 3
CLO-1 :	Understand basic concepts of disaster and hazards of India.	3	3			2								3	3	
CLO-2 :	Acquire Knowledge on the various natural disasters.	3	3			3								3	3	
CLO-3 :	Acquire Knowledge the various manmade disasters.	3	3			3								3	3	
CLO-4 :	Understand the disaster management principles.	3	3			2								3	3	
CLO-5 :	Appreciate the modern techniques used in disaster mitigation and management.	3	3			3								3	3	

Qn. No.	Question	Marks	BL	CO	PO	PI
PART A: Answer all the questions (10 × 1 = 10 Marks)						
1	In one map different hazard related information for a study area to be convey a composite picture of natural hazard such as frequency and magnitude is called a) Multiple Hazard Mapping b) Early Warning system c) Zoning Magnitude d) Land Use and Cover	1	L1	CO4	1	1.3.1
2	A set of capacities needed to generate and disseminate timely and meaning full warning information of possible disaster is called	1	L1	CO4	1	1.3.1

	a) Multiple Hazard Mapping c) Zoning Magnitude	b) Early Warning system d) Land Use and Cover					
3	The Agencies for forecasting cyclones are a) Indian Meteorological Department c) Oceanic Information services	b) Water Commission d) Disaster Rescue Force	1	L1	CO4	1	1.3.1
4	Areas are classified on the purpose the land serves such as recreation, agriculture is a) Land Cover c) Land Use	b) Zoning d) Hazard Mapping	1	L1	CO4	1	1.3.1
5	The vulnerable groups such as the artisans, elderly, orphans, single women and young children would need special support to survive the impact of disasters is coming under a) Social Rehabilitation c) Economical Rehabilitation	b) Physical Rehabilitation d) Relocation	1	L1	CO4	1	1.3.1
6	A Collection of energy that is reflected from the earth surface is called a) Active sensing c) Simulation	b) Control system d) Passive Sensing	1	L1	CO5	1	1.3.1
7	The remote sensing simulation effectively used for mapping flood Inundation areas due to all weather capability is a) RADARSAT c) EWS	b) FEM d) IMG	1	L1	CO5	5	5.2.2
8	How many earthquake zone categories are there in India? a) 5 c) 4	b) 6 d) 3	1	L1	CO5	1	1.3.1
9	Microwave remote sensing technology used in Landslide is a) Scatterometry c) Interferometry	b) Polarimetry d) Monometry	1	L1	CO5	5	5.2.2
10	One of the largest domestic communication satellite systems in Asia Pacific region with nine operational satellites placed in geo - stationary orbit is a) INSAT c) AGNI	b) SCAR d) RADSAT	1	L1	CO5	5	5.2.2
PART B: Answer any four questions (4 × 10 = 40 Marks)							
11	Write briefly about Early warning system and their characteristics. Also write in detail about early warning system for earthquake. - Early warning system definition and characteristics – 5 marks - Early warning system for earthquake – 5 marks		10	L1, L2	CO4	1, 5	1.3.1, 5.2.2
12	Explain briefly about Rehabilitation and its various aspects in post disaster stage - Rehabilitation for disaster management – 3 marks - Social aspect – 3 marks - Economic aspect – 2 marks - Environmental aspect – 2 marks		10	L1, L2	CO4	1	1.3.1
13	Explain in detail about Pre-disaster stage activities for cyclone and flood. - Pre disaster activities for cyclone – 5 marks - Flood – 5 marks		10	L1, L2	CO4	1	1.3.1
14	Write in detail about role of Remote Sensing in Disaster Management. – 10 marks - Remote sensing in prediction, warning and rehabilitation		10	L1, L2	CO5	2, 5	2.2.2, 5.2.2

	- Applications of remote sensing for disaster management					
15	Write about Geographical Information system and its application in Disaster Management - Structural and non structural mitigation plan for cyclone – 5 marks - Structural and non structural mitigation plan for chemical disasters – 5 marks	10	L1, L2	CO5	5	5.2.2
16	Explain briefly about Meteorological Laboratory and its services. 10 marks - Meteorological laboratories and the equipment required for weather data collection and prediction - Any major 4 tools/equipment/instruments with its applications	10	L1, L2	CO5	1	1.3.1

* BL – Bloom’s Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

* CO- Course Outcomes, PO- Program Outcomes, PI- Performance Indicator.