

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

Continuous Learning Assessment	: CLA-3	Date	: 08.05.2024
Course Code & Course Name	: 18CEO307T, Disaster Mitigation and Management	Duration	: 90 minutes
Year / Semester	: III/VI	Maximum Marks	: 50
Academic year	: 2023-2024	Mode of Exam	: Offline

Course Articulation Matrix																
Course Outcomes (CO):		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
CO-1:	<i>Understand basic concepts of disaster and hazards of India.</i>	3	-	-	-	-	-	3	-	-	-	-	3	3	-	-
CO-2:	<i>Acquire Knowledge on the various natural disasters.</i>	3	-	-	-	-	-	3	-	-	-	-	3	3	-	-
CO-3:	<i>Acquire Knowledge the various manmade disasters</i>	3	-	-	-	-	-	3	-	-	-	-	3	3	-	-
CO-4:	<i>Understand the disaster management principles</i>	-	-	-	-	-	3	3	-	-	-	-	3	3	-	-
CO-5:	<i>Appreciate the modern techniques used in disaster mitigation and management</i>	3	-	-	-	3	-	3	-	-	-	-	-	3	-	-

Qn. No.	Question	Marks	BL	CO	PO	PI
PART A: Answer all the questions (10 × 1 = 10 Marks)						
1.	Vulnerability analysis comes under which part of the Disaster Management Cycle? a) Mitigation b) Preparedness c) Response d) Recovery	1	1	4	1	7.2.1
2	Rehabilitation indicates a) immediate response after the disaster b) public health service just after the disaster c) planning the mitigation of the effect of a disastrous event d) reconstruction works in an area after disaster	1	1	4	1	1.2.1
3	In which of the followings of disaster management, remote sensing cannot be applied? a) hazard zonation mapping b) mitigation plan c) public health services to the community immediately after the hit d) response stage	1	2	4	7	12.2.2
4	Which of the followings is not included in pre disaster phase? a. Recovery b. Warning c. Prediction d. Predictability	1	2	4	1	12.1.1
5	Which of the following cannot be accurately predicated and warned through warning system? a) Cyclone b) Earthquake c) Flood d) Rain	1	3	4	1,7	12.1.2
6	Among the following choose which has been successfully used in preparing, planning, analyzing, forecasting, mitigation and risk assessment of various types of disasters? a. Remote sensing b. GIS c. MIS d. Database management	1	3	4	1	12.3.2

7.	Indian Meteorological Department (IMD) calls a storm ‘Super cyclone’ when the wind blows a) More than 120 km /hour b) More than 100 km /hour c) More than 220 km /hour d) More than 320 km /hour	1	4	4	1	7.2.2
8	Which of the followings is essential for success in both pre-disaster and post-disaster management? a. response b. recovery c. reconstruction d. people’s participation	1	2	4	7	7.2.1
9.	Which of the following is a part of hazard specific mitigation plan? (a) Land use map (b) Earthquake zone mapping (c) Flood banks (d) rehabilitation	1	2	4	1	7.2.1
10	Which of the followings is needed for both pre-disaster and post-disaster phase of disaster management? a) mitigation b) capacity building c) response d) recovery	1	3	4	1,7	12.1.1
PART B: Answer any FOUR questions (4× 4 = 16 Marks)						
11	In your opinion, what should be the role of academic sector on Preparedness through Information and education?	4	5	5	1,7	1.2.1 7.1.1
12	Discuss the benefits of multi hazard mapping.	4	4	5	1,7	1.2.1 7.1.1
13	Write four primary points on goal of prediction system.	4	3	4	1,7	1.2.1 7.1.1
14	Differentiate between response plan and functional plan.	4	4	4	1,7	1.2.1 7.1.1
15	Opinion on application of GIS in disaster management.	4	4	4	1,7	1.2.1 7.1.1
PART C: Answer all the questions (2× 12 = 24 Marks)						
16 a	Present the pre-disaster and post-disaster management steps with a schematic of disaster management cycle.	12	4	4	1,7	1.2.1 7.1.1
16 b	OR Propose your own plan for Rehabilitation/Rescue training for search and operation	12	4	4	1,7	1.2.1 7.1.1

17 a	<p>Critically discuss on the following statement: Seismological observatory is useless for prediction of earthquake is not possible.</p> <p style="text-align: center;">OR</p> <p>List the advantages of application of remote sensing and GIS in disaster management.</p>	12	4	5	1,7	1.2.1 7.1.1
17 b		12	5	5	1,7	1.2.1 7.1.1