

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

<b>Continuous Learning Assessment</b>	<b>: CLA-3</b>	<b>Date</b>	<b>: 08.05.2024</b>
<b>Course Code &amp; Course Name</b>	<b>: 18CEO307T, Disaster Mitigation and Management</b>	<b>Duration</b>	<b>: 90 minutes</b>
<b>Year / Semester</b>	<b>: III/VI</b>	<b>Maximum Marks</b>	<b>: 50</b>
<b>Academic year</b>	<b>: 2023-24</b>	<b>Mode of Exam</b>	<b>: Offline</b>

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

Qn. No.	Question	Marks	BL	CO	PO	PI
<b>PART A: Answer all the questions (10 × 1 = 10 Marks)</b>						
1.	Which one of the following agencies for flood forecasting? a) Indian Meteorological Department b) Indian national centre for oceanic information system c) <b>Central Water Commission</b> d) Indian Meteorological Department	1	1	4	1	7.2.1
2	The areas are classified based on the surface cover on the ground whether vegetation, urban infrastructure, water, bares soil or others is known as a) <b>Land Cover</b> b) Land use c) Land fall d) Land fill	1	1	4	1	1.2.1
3	The target group for Disaster education. a) affected people b) Non-Vulnerable people c) Urban People d) <b>Vulnerable People</b>	1	2	4	7	12.2.2
4	Which among the following is a post disaster process? a. <b>Response</b> b. Prevention c. Mitigation d. Preparedness	1	2	4	1	12.1.1
5	..... is a technical activity rendered by group of specially trained personnel. a) Search and Research b) <b>Search and Rescue</b> c) Search and Storm d) Search and Review	1	3	4	1,7	12.1.2
6	What is one of the following is duties of the Rescuer? a. <b>Assessment</b> b. Man Power c. Equipment's d. Methods	1	3	4	1	12.3.2
7.	..... is a Housing and infrastructure development in Post disaster a) Chemi b) Accidental c) <b>Rehabilitation</b> d) Natural	1	4	4	1	7.2.2

8	The agricultural rehabilitation of disaster affected areas for long term is a. Harvesting of crop b. Loan c. Insurance d. <b>Free Fertilizers and seeds</b>	1	2	4	7	7.2.1
9.	..... Zoning is the establishment of land use planning zones at regional levels (a) Mini (b) <b>Macro</b> (c) Micro (d) small	1	2	4	1	7.2.1
10	The World Conference on Disaster Risk Reduction held in ..... a) <b>Japan</b> b) Australia c) South Africa d) China	1	3	4	1,7	12.1.1
<b>PART B: Answer any FOUR questions (4× 4 = 16 Marks)</b>						
11	List the benefits of multiple hazard mapping.	4	5	5	1,7	1.2.1 7.1.1
12	Explain about the Sendai Framework for Disaster risk Reduction	4	4	5	1,7	1.2.1 7.1.1
13	Explain the types of arial photographs	4	3	4	1,7	1.2.1 7.1.1
14	Write in detail about the Pre disaster-preparing hazard zonation maps	4	4	4	1,7	1.2.1 7.1.1
15	Differentiate Raster and Vector spatial elements	4	4	4	1,7	1.2.1 7.1.1
<b>PART C: Answer all the questions (2× 12 = 24 Marks)</b>						
16 a	Explain the land-use zoning for disaster management <b>OR</b>	12	4	4	1,7	1.2.1 7.1.1
16 b	Discuss the emergency rescue Methods for post disaster	12	4	4	1,7	1.2.1 7.1.1
17 a	Explain the role of Remote Sensing in Disaster Management <b>OR</b>	12	4	5	1,7	1.2.1 7.1.1
17 b	Illustrate the application of GIS in Disaster Management and mitigation	12	5	5	1,7	1.2.1 7.1.1