

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

Continuous Learning Assessment	: CLA-2	Date	: 20.10.2022
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	

Q. No.	Question	Marks	BL	CO	PO	PI
PART A: Answer all the questions (10 × 1 = 10 Marks)						
1	Which among the following is a social impact of drought? a) Diminishing of drinking water b) Ground water depletion c) Rise in inflation rate d) Loss of soil moisture	1	L1	CO2	1	1.3
2	Name the instrument used for measuring the magnitude of earthquake. a) Thermometer b) Ergograph c) Seismograph d) Barometer	1	L1	CO2	1	1.3

3	The ill-health effect caused by one-time, sudden, high exposures is often called _____. a) Chronic effect b) Acute effect b) Systematic effect d) Immediate effect	1	L1	CO2	1	1.3
4	What is the reason for volcanic eruption? a) Movement and splitting of the major and minor plates of the Earth b) Origin of magma because of lowering of melting point inside the Earth caused by reduction in the pressure due to the splitting of plates and their movements in opposite directions. c) Only A d) Both A & B	1	L1	CO2	1	1.3
5	In the eye of the cyclone the temperature and pressure are: a) Highest b) Lowest c) Normal d) Average	1	L1	CO2	1	1.3
6	When the outbreak of any disease spread from one country to the other, it is called _____. a) Epidemic b) Pandemic c) Endemic d) Hypodemic	1	L1	CO3	1	1.3
7	Which of the following is NOT an engineering disaster? a) Dam failure b) Collapse of bridges c) Collapse of fly over d) Landslides	1	L1	CO3	1	1.3
8	_____ are the outbreak of diseases of contagious of plant and animal life on epidemic or pandemic level a) Nuclear disaster b) Chemical disaster c) Forest fire d) Biological disaster	1	L1	CO3	1	1.3
9	Bhopal gas tragedy can be classified as _____. a) Meteorological disaster b) Chemical disaster c) Natural disaster d) Biological disaster	1	L1	CO3	1	1.3
10	Name the place where nuclear chemical explosion has taken place in the year 1986. a) Tianjin China Explosion b) Chernobyl Nuclear Disaster c) Halifax Explosion at Canada d) Oppau Explosion at Germany	1	L1	CO3	1	1.3
PART B: Answer any four questions (4 × 10 = 40 Marks)						
11	Explain in detail about earthquake, its characteristics and effects. - Earthquake – definition and forms – 2 marks - Characteristics of earthquake – 3 marks - Explanation about focus and epicentre – 2marks - Effects of earthquake – 3 marks	10	L1	CO2	1	1.3
12	Discuss landslide, its classification and mitigation measures. - Landslide – definition – 2 marks - Classification with explanation – 5 marks - Mitigation measures – 3 marks	10	L1	CO2	1	1.3
13	Discuss in detail about flood, its classification, effects and possible mitigation measures. - Flood – explanation about causes – 2 marks - Classification – 3 marks - Effects – 2 marks - Possible mitigation measures – 3 marks	10	L1, L2	CO2	1	1.3
14	Explain water pollution and its sources along with its effects. Also, write how water pollution is related to disaster. - Water pollution and sources – 4 marks - Effects of water pollution – 3 marks - Water pollution relation with disaster – 3 marks	10	L1, L2	CO3	1,2	1.3,2.1
15	Write in detail about disasters due to oil fire accident with their causes, effects and mitigation measures.	10	L1	CO3	1	1.3

	<ul style="list-style-type: none"> - Oil fire accident causes – 4 marks - Effects – 3 marks - Mitigation measures – 3 marks 					
16	<p>Discuss in detail about nuclear disaster and its causes and effects.</p> <ul style="list-style-type: none"> - Nuclear disaster – definition – 2 marks - Forms of nuclear disaster – 2 marks - Causes of nuclear disaster – 3 marks - Effects – 3 marks 	10	L1	CO3	1	1.3

* 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.