R22 Regulation *Subject code:4O7AC,4O7EA,4O7FA&4O7GA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Regular/Supplementary Examinations, October 2026

DISASTER MANAGEMENT

(Common to CE, CSE, IT & CSE(AI&ML))

Maximum Marks: 60 Date:02.11.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X1M=10 Marks)		Marks	CO	BTL
1.a)	Why is Vulnerability assessment being important?	1M	1	L1
b)	How early warning systems help in detect hazards?	1M	1	L1
c)	What is disaster management cycle?	1M	2	L1
d)	List out the phases of disaster risk reduction	1M	2	L1
e)	What is capacity assessment in disaster management?	1M	3	L1
f)	Distinguish between structural vs non-structural measures in disaster management.	1M	3	L4
g)	Distinguish between coping and adaptation.	1M	4	L4
h)	List any two elements of an industrial safety plan.	1M	4	L1
i)	Explain any two strategies for disaster management planning.	1M	5	L2
j)	Define the term NDRF.	1M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
2	a. Identify different types of hazards with suitable examples b. How urbanization and environmental degradation can lead to major disasters?	5M 5M	1	L2 L1
	OR			
3	a. Distinguish the disaster risks in terms of frequency and response time. b. Discuss how disaster phenomena differ at national and global levels.	5M 5M	1	L4 L5
4	a. Illustrate disaster management cycle with suitable diagram. b. Explain few guidelines needed for preparedness in case of disaster.	5M 5M	2	L3 L2
	OR			
5	a. What are the post rehabilitation measures of disaster mitigation? b. Explain the role of institutions in disaster mitigation.	5M 5M	2	L1 L2

6	a. Outline the components of capacity building. b. Infer the legislative support at state level in disaster management.	5M 5M	3	L2 L2
	OR			
7	a. Interpret the importance of capacity building in disaster management. b. Evaluate the role of local communities to cope with disasters.	5M 5M	3	L5 L5
8	a. Illustrate the components of an industrial safety plan. b. Explain the term "Alternative adjustment process" with suitable examples.	5M 5M	4	L3 L5
	OR			
9	a. What is the role of media before and after occurrence of disaster. b. Identify the checklist of items in survival kit for a family in earthquake and floods area.	5M 5M	4	L1 L2
10	a. Infer the essential elements of disaster management act. b. Illustrate the composition of organization structure of disaster management	5M 5M	5	L2 L2
	OR			
11	a. Outline the contents of state disaster management plan. b. Define the vision and objectives of National policy disaster management.	5M 5M	5	L2 L1