

Code: 20CE2701A

**IV B.Tech - I Semester – Regular / Supplementary Examinations
OCTOBER 2024**

**DISASTER MANAGEMENT AND PREPAREDNESS
(Common for ALL BRANCHES)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	Classify and describe the different types of natural disasters. Discuss the specific characteristics and impacts of each type.	L2	CO1	7 M
	b)	Evaluate the hazard and vulnerability profile of India. How do geographic, socioeconomic, and environmental factors contribute to the country's disaster risk profile?	L2	CO1	7 M
OR					
2	a)	Outline and discuss the classification of manmade disasters. Examine their causes, effects and challenges in management.	L3	CO1	7 M
	b)	Describe the role of early warning systems in disaster management. How do they contribute to disaster preparedness and response?	L3	CO1	7 M

UNIT-II

3	a)	Examine the impact of demographic factors such as age and gender on disaster vulnerability and recovery. How do these factors influence the effectiveness of disaster response strategies?	L2	CO2	7 M
	b)	Discuss the global and national disaster trends in disaster occurrence and response.	L3	CO2	7 M

OR

4	a)	Evaluate the role of climate change in increasing the frequency and severity of urban disasters. What measures can be taken to mitigate these risks?	L3	CO2	7 M
	b)	Analyze the political implications of disaster management and recovery. How do political decisions and governance structures influence the effectiveness of disaster response and recovery efforts?	L2	CO2	7 M

UNIT-III

5	a)	Define and explain the four primary phases of the disaster management cycle. How do these phases contribute to overall disaster preparedness and response?	L2	CO3	7 M
	b)	Describe the role of early warning systems in disaster management. How do these systems enhance community preparedness and response?	L2	CO3	7 M

OR

6	a)	Discuss the importance of risk analysis in disaster management. How does risk analysis help in planning and implementing disaster mitigation strategies?	L2	CO3	7 M
	b)	Discuss the role of Geographic Information Systems (GIS) in disaster management. How does GIS improve the effectiveness of disaster response and risk assessment?	L2	CO3	7 M
UNIT-IV					
7	a)	Explain the importance of sanitation and water management in post-disaster scenarios. What are the primary challenges and how can they be addressed to prevent disease outbreaks?	L2	CO4	7 M
	b)	Discuss the process of reconstruction and rehabilitation following a disaster. What are the key considerations for ensuring effective recovery and rebuilding efforts?	L2	CO4	7 M
OR					
8	a)	Analyze the roles and responsibilities of government agencies in disaster management. How do different levels of government contribute to effective disaster response and recovery?	L3	CO4	7 M
	b)	Evaluate the organizational structure of disaster management agencies. How does the structure impact the effectiveness of disaster response and recovery operations?	L2	CO4	7 M

UNIT-V

9	a)	Discuss how developmental projects, such as large infrastructure developments, can influence the vulnerability of communities to natural disasters.	L2	CO5	7 M
	b)	Explain the environmental impacts of dam construction on local communities and ecosystems.	L3	CO5	7 M
OR					
10	a)	Discuss the concept of sustainable recovery and how it can be integrated into post-disaster reconstruction efforts.	L2	CO5	7 M
	b)	Discuss about different factors affecting Vulnerability.	L2	CO5	7 M