

Code: 20CE2701A

**IV B.Tech - I Semester – Regular Examinations - DECEMBER 2023**

**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
<b>UNIT-I</b>					
1	a)	Discuss the differences between natural disasters and man-made disasters providing specific examples of each.	L2	CO1	7 M
	b)	Select one natural disaster and one man-made disaster from the classification. Analyze the root causes and contributing factors for each and outline potential measures to mitigate their impact.	L3	CO1	7 M
<b>OR</b>					
2	a)	Explain the importance of disaster prevention in reducing the impact of disasters. Provide examples of preventive measures that can be implemented at the local community level.	L2	CO1	7 M
	b)	Explain about Hazard and Vulnerability profile of India.	L3	CO1	7 M
<b>UNIT-II</b>					
3	a)	Analyze the social and health impacts of disasters on affected communities. Include a discussion of psycho-social issues that may arise during and after disasters.	L2	CO2	7 M

	b)	Discuss demographic aspects such as gender, age, and special needs in disaster management.	L2	CO2	7 M
<b>OR</b>					
4	a)	Discuss the relationship between climate change and the increased risk of disasters. How does climate change contribute to the occurrence and intensity of natural disasters?	L2	CO2	7 M
	b)	Explore the challenges associated with managing disasters in urban areas. How can urban planning and development contribute to disaster resilience in cities?	L3	CO2	7 M
<b>UNIT-III</b>					
5	a)	Describe the phases of the disaster management cycle and explain the key activities associated with each phase.	L2	CO3	10 M
	b)	Differentiate between prevention, mitigation of disaster management.	L3	CO3	4 M
<b>OR</b>					
6	a)	Discuss the concept of preparedness in disaster management. What are the key elements of an effective preparedness plan, and why is it crucial for disaster response?	L2	CO3	7 M
	b)	Explain the role of early warning systems in disaster preparedness. How can these systems help communities and governments respond to impending disasters more effectively?	L3	CO3	7 M

### **UNIT-IV**

7	a)	Describe the key components of environmental post-disaster response, including water and sanitation, food safety, disease control, security, and communications. Why are these aspects critical in the recovery phase?	L2	CO4	7 M
	b)	Provide examples of specific measures and strategies that can be implemented to address environmental concerns after a disaster. How can communities ensure access to safe drinking water and proper sanitation during recovery?	L3	CO4	7 M

### **OR**

8	a)	Outline the roles and responsibilities of government agencies in post-disaster response and recovery. How does government coordination and leadership contribute to effective recovery efforts?	L2	CO4	7 M
	b)	Explore the role of international agencies like NDMA, SDMA and other organizations in providing assistance during and after disasters. Additionally, discuss the role of the insurance sector in disaster risk reduction and recovery.	L3	CO4	7 M

### **UNIT-V**

9	a)	Explain how developmental projects and environmental modifications such as dams, land use changes, and urbanization can increase vulnerability to disasters in communities.	L2	CO5	7 M
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	b)	Describe the reconstruction and development methods that can be employed in the post-disaster.	L2	CO5	7 M
<b>OR</b>					
10	a)	Discuss strategies and policies that can be implemented to reduce vulnerability in the face of developmental projects and environmental modifications.	L3	CO5	7 M
	b)	Discuss the challenges associated with balancing reconstruction and development goals with environmental conservation. How can these challenges be addressed effectively?	L3	CO5	7 M