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## ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B. Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, MAY 2024

BE Mechanical Engineering  
Semester VIGE7071 - DISASTER MANAGEMENT  
(Regulation 2015)

Time:3 hrs

Max. Marks: 100

CO1	To provide students an exposure to disasters, their significance and types.
CO2	To ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention and risk reduction
CO3	To gain a preliminary understanding of approaches of Disaster Risk Reduction (DRR)
CO4	To enhance awareness of institutional processes in the country and
CO5	To develop rudimentary ability to respond to their surroundings with potential disaster response in areas where they live, with due sensitivity

**BL – Bloom's Taxonomy Levels**

(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

**PART- A (10x2=20Marks)**  
(Answer all Questions)

Q. No.	Questions	Marks	CO	BL
1	What is the difference between a hazard and a disaster?	2	1	L1
2	List three social impacts of disasters.	2	1	L1
3	What are the main phases of the disaster cycle?	2	2	L2
4	Define structural and non-structural measures in disaster risk reduction.	2	2	L2
5	How can development projects like dams and embankments increase vulnerabilities to disasters?	2	3	L2
6	What is the significance of indigenous knowledge in disaster risk reduction?	2	3	L2
7	What are the key components of disaster relief in India?	2	4	L1
8	How does GIS contribute to disaster preparedness and risk assessment?	2	4	L1
9	What is landslide hazard zonation, and why is it important?	2	5	L1
10	Give an example of a man-made disaster and briefly describe its impacts.	2	5	L1

**PART- B (5x 13=65Marks)**

Q. No.	Questions	Marks	CO	BL
11 (a)	Discuss the classification of disasters and provide examples of each type. How do these classifications help in disaster management?	13	1	L3
OR				
11 (b)	Analyze the differential impacts of disasters in terms of caste, class, gender, age, location, and disability. Provide specific examples to illustrate your points.	13	1	L3
12 (a)	Explain the roles and responsibilities of various stakeholders, including the community, Panchayati Raj Institutions, Urban Local Bodies, States, and the Centre, in disaster risk reduction.	13	2	L4
OR				
12 (b)	Describe the institutional processes and frameworks at the state and central levels for disaster management in India. How do these frameworks facilitate disaster preparedness and response?	13	2	L4
13 (a)	Discuss the impact of climate change on disaster vulnerabilities. How	13	3	L3

