

**B.M.S College of Engineering, Bengaluru-560019**

Autonomous Institute Affiliated to VTU

**January / February 2025 Semester End Main Examinations****Programme: B.E.****Branch: Civil Engineering****Course Code: 22CV6OEDMM****Course: Disaster Management and Mitigation****Semester: VI****Duration: 3 hrs.****Max Marks: 100**

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

<b>Important Note:</b> Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			<b>UNIT – I</b>	<b>CO</b>	<b>PO</b>	<b>Marks</b>
	1	a)	Define disaster management and explain the major components involved.	CO1	PO6	10
		b)	List the general objectives of disaster management and explain the important principles of disaster management.	CO1	PO6	10
			<b>OR</b>			
	2	a)	Define the following terms related to disaster management: vulnerability, risk, exposure, capacity, and resilience.	CO1	PO6	10
		b)	Identify the major challenges involved in any disaster management.	CO1	PO6	10
			<b>UNIT – II</b>			
	3	a)	Discuss the causes, general characteristics, emergency management plan, countermeasures, and challenges in the management of the COVID-19 pandemic.	CO1	PO6	10
		b)	List the mitigation measures that can be adopted to reduce the landslide events.	CO1	PO7	10
			<b>OR</b>			
	4	a)	With an appropriate case study, discuss how surveillance and awareness are essential in mitigating epidemics.	CO1	PO6	10
		b)	List the steps needed to increase the road safety in your city.	CO1	PO6	10
			<b>UNIT - III</b>			
	5	a)	Analyze the disaster management cycle with a focus on the response and recovery phases. Provide examples to illustrate your point.	CO 2	PO6	10
		b)	Examine the role of Information and Communication Technology (ICT) in the various phases of disaster management.	CO 2	PO6	10
			<b>OR</b>			
	6	a)	Discuss the qualitative and quantitative methods for risk assessment.	CO 2	PO6	10

		b)	Discuss the objectives and general structure of the disaster management plan.	CO 2	PO6	10
			<b>UNIT – IV</b>			
7	a)		Illustrate the institutional structures for disaster management in India.	CO 2	PO6	10
	b)		Discuss the functions and responsibilities of NDMA.	CO 2	PO6	10
			<b>OR</b>			
8	a)		List the various stakeholders and their responsibilities in disaster management.	CO 2	PO6	10
	b)		Discuss the disaster profile of India.			
			<b>UNIT – V</b>			
9	a)		Discuss the significance of Paris agreement India's Nationally Determined Contribution under Paris Agreement.	CO 3	PO7	10
	b)		Define environmental degradation. Discuss the factors causing the same and its potential impact.	CO 3	PO7	10
			<b>OR</b>			
10	a)		List the impacts of climate change on various sectors. Illustrate any one of the impacts in detail.	CO 3	PO7	10
	b)		Discuss the phenomenon of ozone layer depletion, factors causing the same and its potential impact.	CO 3	PO7	10

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