[5155]-144

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M.E. (Civil) (Structure) EARTHQUAKE ENGINEERING & DISASTER MANAGEMENT (2013 Course) (Semester-III) (End Semester) (601013)

Time	: 3 Hours] [Max. Marks : 50
Instr	uctions to the candidates:
	1) Answer any five questions.
	2) Figures to the right indicate full marks.
	3) If necessary, assume suitanle data and indicate clearly.
	<i>4)</i> Use of electronic pocket calculator is allowed.
Q1)	Explain any three types of man-made disasters. [10]
Q2)	Write a note on pre-disaster activities. Explain any one activity in detail. [10]
Q3)	What is response spectrum? When is it used for the analysis? [10]
Q4)	Expalin capacity based design. [10]
<i>Q5</i>)	A restrained beam of span 5m carries a total uniformly distributed load of
-	55 kN/m. The moment due to lateral loads is 80 kN-m. the shear force is
	60 kN. Design the beam and sketch the detail as per IS : 13920. [10]
Q6)	What are the functions of shear walls? Explain the different types with neat
~	sketches. [10]
Q7)	What parameters need to be considered while doing fire analysis of steel
	structures. [10]
Q8)	Explain the models of failure of masonry structures. Explain two repair
	techniques. [10]
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