Roll No. Total No. of Pages : 01 Total No. of Questions : 08	
M.Tech (Civil Engineering) (Sem.–3) DISASTER REDUCTION AND MANAGEMENT Subject Code : CE-520 M.Code : 35215	
Tim	e : 3 Hrs. Max. Marks : 100
 INSTRUCTIONS TO CANDIDATES : 1. Attempt any FIVE questions out of EIGHT question. 2. Each question carry TWENTY marks. 	
Q1.	(a) Write down the various precautions that are to be taken after a major natural disaster.
	(b) Briefly discuss the long term disaster preparedness measures.
Q2.	Discuss the various design philosophies for the earthquake resistant structures.
Q3.	Discuss the various damages that are caused by occurrence of landslides, floods and liquefaction.
Q4.	Briefly discuss :
	(a) Seismic base isolation method,
	(b) Retrofitting.
Q5.	Write a brief note on :
	(a) Role of volunteers to disaster management
	(b) Damage reconnaissance.
Q6.	Discuss detailing of columns, beams and joints in context of earthquake resistant RCC buildings. Write codal provisions for the same.
Q7.	What is a response spectrum? What are the various factors that affect the damage to the structures? Also explain how the damage to the structures can be minimized?

- Q8. (a) What is disaster information resource network? Also comment on its significance in context to disaster management.
 - (b) How does government can play a positive role in minimizing the damages after occurrence of major natural disaster?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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