Q.P. Code: 620100

(3 Hours)

[Total Marks: 100

N.E	3. :	(1) Question No. 1 is compulsory	
		(2) Answer any four questions out of remaining six	
		(3) Attempt sub questions in order	1,6
		(4) Figures to the right indicate full marks.	2016
1.	a)	Explain in detail the design concepts involved in as well as the	10
1.	a)	construction materials used for the safe construction of facilities in	10
		case of earthquakes and cyclones. Also discuss the fire resistant facilities	
		that need to be essentially provided in a building/industry.	
	b)	Discuss the framework for disaster management in India	10
	0)	Discuss the manie work for disaster management in main.	
2.	a)	Describe the inclusions of the National Disaster Management Act of 2005.	8
	b)	Elaborate the guidelines laid down by NOMA for disaster management	6
		in India.	
	c)	in India. Explain the sphere project.	6
3.	a)	Explain the role of various local/state/pational government and NGOs	10
		(with special emphasis on plans Redcross society & Red R) for	
		Disaster Management in India.	
	b)	Discuss the impact of disasters on constructed facilities. Also comment	10
		on the disruption caused to construction activities due to disasters?	
4.	(a)	Which type of disaster need more preparation w.r.t. civil engineering	8
		field in your view? Justify.	
	b)	What do you understand by early warning system? In which disasters,	5
	,	are early warning systems are not possible?	_
	c)	Comment on fadiation hazards. Also discuss chemical spills.	7
5	2)	What de you are denoted by liquefection? In case of a landalida mana	1.0
5.	a)	What do you understand by liquefaction? In case of a landslide prone	10
		locality, is preventive retrofitting advisable or do the population needs to be migrated to some safer place. Comment your stance.	
	h)	Explain in detail, vulnerability, with reference to Earthquake disaster.	10
	3	List down the preparatory measures for minimizing vulnerabilities related	10
D	7,	to Earthquake.	
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- Industrialization is an essential component for the economic 6. development of a country. However industrial disasters can have a significant social and economic impact. Explain this statement with suitable examples.
 - Natural ecosystems act as a first line of defence against natural b) disasters. Explain this statement with suitable example. Also justify can natural ecosystems act as a line of defence against manmade Define the following terms (any 10) with respect to disaster management

 (i) Capacity

 (ii) Hazard
- 7.

(v) Risk

(vi) response

(vii) relief

- (viii) rehabilitation
- (ix) reconstruction
- development (x)
- (xi) mitigation
- preparedness and prevention (xii)