

SECTION – D

8. (a) What is importance of ductile detailing ? How is it achieved ? 10
- (b) Describe the code provisions for framed structures. 10
9. Write short note on : 20
- (a) Soft floors in buildings.
- (b) Building configuration.
- (c) Eccentric loading.
- (d) Seismic response of foundation & soil behaviour.

Roll No.

24512

B. Tech. 7th Semester (Civil Engg.)

Examination – December, 2016

DISASTER MITIGATION AND MANAGEMENT

Paper : CE-403-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempts *five* questions in all, selecting at least *one* question from each Section. Question No. 1 is *compulsory*. All questions carry equal marks.

1. (a) Differentiate between hazard & disaster on three aspects. $2 \times 10 = 20$
- (b) Draw disaster management cycle.
- (c) What are causes of occurrence of hurricanes & cyclones ?

- (d) Define soft floors in multi storied buildings.
- (e) What is meant by disaster preparedness ?
- (f) Describe remedial measures to control landslide.
- (g) Define eccentric loading of structure.
- (h) Write two points to resist atmospheric disaster.
- (i) Discuss guidelines for flood prevention.
- (j) List major earthquakes in India.

SECTION – A

2. (a) Define total disaster risk management approach & refer to its persistence for disaster management cycle. 10
- (b) What are the necessary steps to be taken to avoid dangerous epidemic after a flood disaster ? 5
- (c) Specify the role played by engineer in the process of disaster management. 5
3. Write short notes on :
 - (a) Atmospheric disaster. 10
 - (b) Coastal disaster. 10

SECTION – B

4. (a) What are different agents of mass movement ? Discuss various types of mass movement & their causes. 10
- (b) Define landslide list out the factors that contribute to landslide. Also discuss direct & indirect losses due to landslide. 10
5. (a) Discuss the case study of 1993 Latur earthquake. 10
- (b) What do you mean by disaster mitigation ? Discuss the guiding principles underlying it. 10

SECTION – C

6. (a) What are forest related disasters, its causes & preventative measures ? 10
- (b) Write short note on mining disaster. 10
7. (a) Define cyclone. Explain its occurrence & effects. Also discuss its preventive measures. 10
- (b) Write a short note on Earthquake giving its causes & effects on our day to today life. 10