B. Tech. 7th Semester (F) Scheme (Civil)

Examination, December–2018

DISASTER MITIGATION AND MANAGEMENT

Paper– CE–403–F

Time allowed : 3 hours] *[Maximum marks : 100*

Note: *Attempt **five** questions in all, selecting **one** question from each section. **Question No. 1 is compulsory.** All questions carry equal marks.*

1. (a) Describe the occurrence of a hurricane.

(b) What do you mean by "Tectonic Plates"?

(c) Describe different bands that reduce the effect of earth of earthquake.

(d) Define soft floor in multi-storied building.

(e) Draw disaster management cycle.

(f) What is meant by disaster preparedness?

(g) List major earthquakes in India.

(h) Discuss guidelines for Flood prevention.

(i) Explain, how deforestation helps in controlling land slides?

(j) Write an over view of Natural disaster in India.

$2 \times 10 = 20$

Section–A

2. (a) What is the role of an Engineer to control any type of disaster? Explain in detail.

(b) Describe in detail how the deforestation and industrialization affect the atmosphere.

3. (a) Explain the role of an Engineer to reduce the effect of disaster.

(b) Describe mind and water driven disasters? Also explain prevention of water driven disaster.

Section–B

4. (a) What are different agents of mass movement? Discuss various types of mass movement and their causes.

(b) Define Landslides. List the factors that contribute to landslides.

5. (a) Discuss the case study of 1993 Latur earthquake.

(b) What do you understand by disaster mitigation? Explain the methods to reduce the effect of earthquake.

Section–C

6. (a) What do you mean by forest disaster? Explain in detail.

(b) Define earthquake. Describe its causes and ill–effects on the people.

7. Describe mind and water driven disasters. Also explain prevention of water driven disaster.

Section–D

8. (a) What is importance of ductile detailing? How is it achieved?

(b) What is importance of local provision of earthquake resistant buildings?

9. Write short notes on-

(a) Soft floor in buildings.

(b) Building configuration

(c) Eccentric loading

(d) Seismic response of foundations and soil behaviour.