

24512

B. Tech. 7th Sem. (Civil Engineering) XI

Examination – December, 2013

DISASTER MITIGATION AND MANAGEMENT

'F' Scheme

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 : (i) **Question No. 1 is compulsory.** Attempt one question from each section.

(ii) All questions carry equal marks.

(ii) Assume missing data, if any, suitably.

1. (i) Define earthquake zone. $10 \times 2 = 20$

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

(iii) Write the importance of ozone layer for human being

(iv) Define disasters that take place in mines.

- (v) Describe the occurrence of a hurricane.
- (vi) What do you mean by 'Tectonic Plates'?
- (vii) Write any three disasters that occurred in India recently.
- (viii) What do you mean by disaster profile analysis ?
- (ix) Explain briefly water driven disaster
- (x) Define soft floor in multi-storied building.

SECTION - A

- 2. (a) What is the role of an engineer to control any type of disaster? Explain in detail. 10
- (b) Describe in detail how the deforestation and industrialization affect the atmosphere. 10
- 3. What is disaster? Explain in detail the hydrological, coastal and marine disaster. 20

SECTION - B

- 4. (a) Explain the disaster occurred in Latur. 10
- (b) What do you mean by disaster mitigation ? Explain the methods to reduce the effect of earthquake. 10
- 5. Explain the causes of occurrence of land sliding. What are the preventive measures to control land sliding? Describe briefly. 20

SECTION - C

6. (a) What do you mean by forest disaster? Explain in detail. 10
- (b) Define earthquake. Describe its causes and ill-effects on the people. 10
7. Describe wind and water driven disasters ? Also describe the preventive measures to reduce these disasters. 20

SECTION - D

8. (a) Write general provisions as per code against earthquake for masonry load bearing structures. 10
- (b) Describe the effects of earthquake on soil behavior. Also explain the failure deformation. 10
9. (a) What is cyclone? Describe the causes and preventive measures of cyclones. 10
- (b) Explain the modern techniques used for hazard resistant construction. 10