

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
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