

I.D. No. 24512

B.Tech. 7th Semester F. Scheme Civil Engg-XI

Examination, May-2014

DISASTER MITIGATION AND MANAGEMENT

Paper-CE-403-F

Time allowed : 3 hours]

[Maximum marks : 100

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

(ii) All questions carry equal marks.

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

1. (a) Write an overview of natural disasters in India.
- (b) Write a note on disaster cycle.
- (c) Define earthquake zone.
- (d) Discuss the guidelines for Flood Prevention.
- (e) Write different types of disasters that occurred in coastal areas.
- (f) Define soft floor in multi-storied building.
- (g) Describe the causes of Tsunami.
- (h) Define 'Tectonic plates'.
- (i) Explain hazard resistant construction.
- (i) What do you mean by earthquake zone?

Section-A

2. (a) Describe atmospheric disaster. Also discuss its effects on people. 10
- (b) Describe the integrated approach to control the disaster. 10
3. (a) Explain the role of an engineer to reduce the effect of disaster. 10
- (b) In coastal areas, disasters occurred frequently. Describe the causes and preventive measures of these disasters in detail. 10

Section-B

4. What do you mean by damage profile analysis? Describe Uttarkashi earthquake in detail. 20
5. (a) Land sliding is a common problem in hilly areas. What are the causes of it? Also explain the preventive measures to control it. 10
- (b) What do you understand by disaster mitigation? Discuss the guiding principles underlying it. 10

Section-C

6. (a) What do you mean by forest disaster? Explain in detail. 10

7. (a) Define cyclone and hurricane. Explain its occurrence and effects. Also describe the preventive measures. 10
- (b) Explain mine disaster in detail. 10

Section-D

8. (a) Describe in detail the ductile detailing of reinforcement. What is its necessity in earthquake resistant construction ? 10
- (b) Describe the code provisions for framed structures. 10
9. (a) Write a short note on :
- (i) Simple configuration and
- (ii) Eccentric loading. 10
- (b) Define seismic response of foundation and effect of earthquake on soil behavior. 10