

Roll No.

24512

**B.Tech. 7th Sem.
(Civil Engineering) Examination-
May, 2013**

**DISASTER MITIGATION AND
MANAGEMENT**

Paper CE-403-F

Time : 3 hours

Max. 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 the examination.

Note : Attempt five questions in all. Question No. 1 is compulsory. Attempt one question from each Section. Each question carries equal marks.

1. (a) Write down three places in India which falls under Seismic Zone V.

$2 \times 10 = 20$

- (b) Name the different bands that are to be provided in load bearing construction as per IS code.

- (c) What are the reasons for occurrence of Tsunami ?
- (d) Why integrated approach is desirable to control the disaster damage ?
- (e) Name any three reasons that can trigger or initiate a landslide.
- (f) What are the type of disaster that can take place in mines ?
- (g) How does Ozone layer around earth protects us ?
- (h) What is the main difference between a load bearing and a framed structure ?
- (i) Mention the important reason for occurrence of flood.
- (j) What are the types of disaster that can take place in Coastal areas ?

SECTION - A

- 2. (a) Role of an Engineer is vital in reducing the effect of any type of disaster. Discuss it in detail. 10
- (b) Write a short note on integrated approach to disaster management. 10

3. (a) Due to large scale industrialisation and deforestation the atmosphere has been badly affected. Discuss these effect in detail. 10
- (b) Disaster in coastal area in a common problem for entire world. What are these disasters ? Briefly describe. 10

SECTION - B

4. (a) Write a short note on Uttarkasi Earthquake. 10
- (b) What do you understand by aftershock effect and why does it occur ? Describe them in brief. 10
5. (a) The frequency of landslide is increasing day by day. Discuss in detail the reasons for it. 10
- (b) How does a major landslide affect the population around it ? Discuss the ill effect of landslide briefly. 10

SECTION - C

6. (a) Forest fire is quite common in USA and Australia. Discuss its reasons and measures to control it. 10

- (b) Write a short note on mine disaster. 10
7. (a) Strong wind can create large scale destruction in coastal area. What are its causes and how can we protect ourselves from its effect ? 10
- (b) Write a short note on Earthquake giving its causes and its effect on our day-to-day life. 10

SECTION - D

8. (a) What are the Codal provisions against Earthquake for masonry load bearing structures. 10
- (b) Earthquake has serious effect on soil characteristics. Discuss them in detail. 10
9. (a) Discuss Codal provision against Earthquake for framed structure. 10
- (b) Write short notes on :
- (i) Soft floor 5
- (ii) Simple Construction 5