

24512

B.Tech. 7th Semester (Civil Engg.)  
Examination, December-2015

**DISASTER MITIGATION AND MANAGEMENT**  
**Paper-CE-403-F**

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

*Note : There are nine questions in all. Question No. 1 is compulsory and students have to attempt one question from each of the four sections.*

1. (a) What is atmospheric disaster ?                      2×10=20  
(b) What are various components of mitigation project?  
(c) Define flood. List out some of the causes and adverse effects of floods.  
(d) What are causes of landslides ?  
(e) Write meaning of Hazard resistant construction.  
(f) Define Mining disaster.  
(g) Write two points to resist forest related disaster.  
(h) Mention different types of disasters that occurred in coastal areas.  
(i) List out natural disasters.  
(j) Which is the Indian code of practice for design of earthquake resistant structures ?

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[P.T.O.]

## Section-A

2. (a) Write a short note on integrated approach to disaster management. 10

(b) Does global warming increase the intensity of atmospheric natural disaster? Explain. 10

3. (a) What is coastal disaster? Give an example. 5

(b) What are floods? Mention its types and causes. 5

(c) Discuss role of Civil Engineer in disaster control and management. 10

## Section-B

4. (a) What do you mean by Geological man movement and land disasters? Mention its causes and remedies. 10

(b) Explain the effects and losses due to landslides. How to minimise landslide hazard? 10

5. (a) Discuss the case study of Uttarakashi flood. 10

(b) What is disaster Mitigation? Discuss the guiding principles underlying it. 10

## Section-C

6. (a) What are water driven disasters? Also mention its causes and preventive measures. 10

## Section-D

7. (b) Write short note on forest related disasters. 10
- (a) Explain Mine disaster in detail. 10
- (b) What are earthquakes? How they occur? What are its causes and effects? 10

8. (a) What is importance of codal provision of earthquake resistant buildings? Discuss the features of earthquake resistant buildings. 10

(b) Discuss ductile detailing of reinforced concrete buildings. 10

9. (a) Explain different components of building configuration. 10

(b) Write short note on seismic response of foundation and soil behaviour. 10