

Roll No.

24512

**B. Tech 7th Semester (Civil Engg.)
Examination – May, 2018**

DISASTER MITIGATION AND MANAGEMENT

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 : Question No. 1 is compulsory. Attempt four questions by selecting one question from each Section. All questions carry equal marks.

1. (i) Write an overview of natural disaster in India.
- (ii) Explain disaster cycle.
- (iii) Define disaster that take-place in tunnel.
- (iv) What do you understand by shear wall ?

- (v) Define flood. List out some of the causes and adverse effects of floods.
- (vi) Define mining disaster.
- (vii) Name the India code of practice for design of earthquake resistant structures.
- (viii) Explain how deforestation helps in controlling land slide.
- (ix) Name any *three* disaster that can take place in coastal/Marine areas.
- (x) Write two points to resist forest related disaster.

2 x 10 = 20

SECTION - A

2. (a) Write a short note on integrated approach to disaster management. 10
- (b) Explain how the deforestation and industrialization affect the atmosphere. 10
3. Explain in detail the roll of an engineer to control any type of disaster. 20

SECTION - B

4. (a) Write a short note on Bhuj disaster. 10

(b) What do you mean by geological man movement or land disaster ? Mention its causes & remedies. 10

5. Landslide is reoccurring problem in hilly areas. Discuss the measure to control it. 20

SECTION - C

6. (a) Write short note on Forest Fire. 10

(b) Describe cyclone. Explain its occurrence and effects. Also describe the preventive measures. 10

7. Earthquake creates large scale loss of property and lives. How these can be reduced ? 20

SECTION - D

8. What is importance of codal provisions of earth-quake resistant buildings ? Discuss the features of earth-quake resistant buildings. 20

9. (a) Write short note on Seismic response of foundation and soil behaviour. 10

(b) Explain different components of building configurations.

10
