

**2E1024**

Roll No. \_\_\_\_\_

Total No of Pages: **3**

**2E1024**

**B. Tech. I Year II Sem. (Old Back) Exam., May - 2017**

**2008-09 Batch**

**Environmental Engineering & Disaster Management**

**Time: 3 Hours**

**Maximum Marks: 80**

**Min. Passing Marks Main: 26**

**Min. Passing Marks Back: 24**

*Instructions to Candidates:*

*Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

*Units of quantities used/calculated must be stated clearly.*

*Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)*

1. NIL

2. NIL

**UNIT – I**

Q.1 (a) Define Disasters. Give their types with detail. [10]

(b) Give an account on Environmental Hazards. [6]

**OR**

Q.1 (a) Explain in detail the natural & manmade disasters. [10]

(b) Write short notes on – [3×2=6]

(i) Landslide

(ii) Chemical Hazards



## UNIT – II

- Q.2 (a) What do you mean by disaster vulnerability? [8]
- (b) Give a detail on the response, rehabilitation & recovery. [8]

### OR

- Q.2 (a) Write notes on - [4+4=8]
- (i) Flood
- (ii) Preparedness for disaster.
- (b) Explain Mitigation and Prevention of disaster. [8]

## UNIT – III

- Q.3 (a) What are seismic waves? Explain. [8]
- (b) Discuss about Plate Tectonic Theory of Earthquake [8]

### OR

- Q.3 (a) What are earthquake energy? Write an account on their causes. [8]
- (b) Write notes on epicenter and epicentral distance. [8]

## UNIT – IV

- Q.4 (a) Explain effect of earthquake on structures. [8]
- (b) Discuss the fire resistant structures. [8]

### OR

- Q.4 Write short notes on -
- (a) Basic concepts of earthquake [8]
- (b) Effect of cyclone on structures [8]



## **UNIT – V**

Q.5 (a) What are the legislative responsibilities on the disaster management? [10]

(b) What are Do's & Don'ts for prevention of life due to earthquake? [6]

**OR**

Q.5 Explain various prevention of life measures from disaster like cyclone & tsunami, in detail. [16]

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