

Roll No.

Total No. of Pages : 02

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**M.Tech (Civil Engg. EL-IV) (2016 Batch) (Sem.-3)**

**DISASTER REDUCTION & MANAGEMENT**

**Subject Code : MTCE -218**

**M.Code : 74767**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions in all, out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1 (a) Discuss the general philosophies of design of earthquake resistant structures.
- (b) Explain the instrumentation and its importance in motion recording and data processing in earthquake.
- Q2 Discuss the different design criteria for earthquake resistant design. Also, contrast between conventional design approach and the present design approach.
- Q3 (a) Assume that you are the incharge of disaster management cell in your district. Discuss the strategies which you will adopt in improving public awareness.
- (b) Explain the different long term disaster preparedness measures.
- Q4 a) Explain the various factors which affect the damage of structures.
- b) Discuss the various indirect damages due to earthquake disaster.
- Q5 Discuss the mitigation measures in respect of the following disasters :
- (a) Nuclear radiation
- (b) Floods and tsunamis
- Q6 Give the structure of National disaster management cell in India. Explain how the coordination with international agencies is established.

- Q7 a) Explain the role of NGOs or volunteers in disaster management using the case study of 2018 floods in Kerala.
- b) Explain the major precautions to be taken after a major disaster like earthquake?
- Q8 Write notes on the following in respect of disaster management
- a) Remote sensing and GIS
- b) Retrofitting of structures
- c) Danger zone restrictions
- d) Information management

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**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**