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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.
 - 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.

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- 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
 - Retrofitting of structures
 - c) Danger zone restrictions
 - d) Information management

dentity by 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.

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