Roll No. Total No. of Pages: 02

Total No. of Questions: 08

## M.Tech. (Civil Engg.) (Sem.-3) DISASTER REDUCTION & MANAGEMENT

Subject Code: MTCE -218 M.Code: 74767

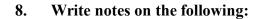
Date of Examination: 23-12-2022

Time: 3 Hrs. Max. Marks: 100

## **INSTRUCTIONS TO CANDIDATES:**

- 1. Attempt any FIVE questions in all, out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. a) Discuss the different design criteria for earthquake resistant structures.
  - b) State the different codal provisions for earthquake resistant design of structures and explain efforts in enforcing the provisions.
- 2. a) Discuss and contrast the conventional and current methods of earthquake resistant design of structures.
  - b) Explain the importance of retrofitting in earthquake disaster management in India. What are the major issues in retrofitting in a typical Indian city?
- 3. a) Discuss the possible strategies for improving the preparedness to meet earthquake disaster in your region.
  - b) Explain the role of planning and land use management in disaster management.
- 4. a) Explain, how important is information management in earthquake disaster management.
  - b) Discuss the various precautions after a major earthquake.
- 5. Discuss the management measures in respect of the following disasters (i) fire (ii) release of poisonous gas.
- 6. Discuss the structure of National disaster management cell in India. Critically discuss the issues in effective coordination in disaster management in India taking any case study.
- 7. Explain the following in respect of disaster management (i) damage reconnaissance (ii) role of volunteers

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- a) Disaster information resources network
- b) Long term disaster preparedness
- c) Role of remote sensing in disaster management
- d) Danger zone restrictions.

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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