

**Roll No.**

**Total No. of Pages : 01**

**Total No. of Questions : 08**

**M.Tech. (CE) (Sem.-3)**

## DISASTER REDUCTION AND MANAGEMENT

**Subject Code : CE-520**

**M.Code : 35215**

**Date of Examination : 19-12-22**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTIONS TO CANDIDATES :**

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

1. Vulnerability is an essential element for defining disaster impact and its threat to people. How and in what ways can vulnerability to disaster be characterized? Discuss different types of vulnerability with reference to disaster.
2.
  - a) Enlist the various institutions and national centers involved in natural disaster reduction.
  - b) How can research rescue team assist a village in times of Hazard?
3. How do engineered structures help us to withstand like floods, earthquakes and cyclones.
4. Describe the various causes and the effects of landslides. Mention the important components of the National Landslide Risk Management Strategy.
5. Discuss the recent measures initiated in disaster management by the Government of India departing from earlier reactive approach.
6.
  - a) Describe different types of natural and man induced hazards.
  - b) Explain the various endogenous hazards affecting the environment.
7.
  - a) What will be the consequence of drought when it affects an area very effectively?
  - b) Explain how the magnitude of earthquake is determined?
8.
  - a) Discuss in brief Disaster Management Act 2005.
  - b) List down the responsibilities of National Disaster Management Authorities (NDMA).

**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.**