Roll No. | | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 08

M.Tech (Civil Engineering) (Sem.–3)

DISASTER REDUCTION AND MANAGEMENT

Subject Code : CE-520

M.Code : 35215

Time : 3 Hrs. **Max. Marks : 100**

INSTRUCTIONS TO CANDIDATES :

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

Q1 a) Discuss the different design criteria for earth quake resistant design.

b) State the different codal provisions for earthquake resistant design of structures in the seismic zone in which you are situated.

Q2 a) Explain how the seismic data collected and processed?

b) What is meant by base isolation method? Discuss its importance in earthquake disaster management.

Q3 a) Discuss the importance of training and capacity building in earthquake disaster management. Propose a course module for earthquake resistant design for practicing engineers.

b) "*Planning and land use management has a major role in disaster management*", elucidate.

Q4 "*In case earthquake disaster, the indirect damages are far reaching than direct damages*". Discuss enumerating the various indirect effects.

Q5 Discuss the mitigation measures in respect of the following disasters

a) Fire

b) Release of poisonous gas.

Q6 Congratulations! You are appointed as the disaster management nodal officer in your district. Discuss the measures which you take to prepare for the earthquake disaster.

Q7 Explain the following in respect of disaster management

a) Social rehabilitation

b) Damage reconnaissance

Q8 Write notes on the following with respect to disaster management

a) Regional data base and resources network

b) Remote sensing and GIS

c) Liquefaction of soil

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.