

Total No. of Questions : 08

DISASTER REDUCTION AND MANAGEMENT

Subject Code : CE-520

M.Code : 35215

Time : 3 Hrs.

Max. Marks : 100

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

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| Q1. | a) Define magnitude of earthquake. | (8) |
| | b) Discuss about the various types of damages likely to occur in structures subjected to strong earthquakes. | (12) |
| Q2. | a) Write a short note on Regional Disaster Documentation Centre. | (10) |
| | b) What kind of dynamic analysis has to be performed for finding out seismic forces for an unsymmetrical building having height >12m and location for building in Kanpur? | (10) |
| Q3. | Write a note on preparedness for medical supply and emergency care during and after earthquake. | (20) |
| Q4. | a) What do you mean by term 'Liquefaction'? How does it occur? | (10) |
| | b) Explain the role and importance of remote sensing in relief operations. | (10) |
| Q5. | Discuss management of rehabilitation <i>w.r.t.</i> Infrastructure rehabilitation, housing rehabilitation and social rehabilitation. | (20) |
| Q6. | Write a short note on : | |
| | a) Major damage due to ground failures. | (10) |
| | b) Tsunamis and damage caused by them. | (10) |
| Q7. | a) What do you mean by fire rating? | (6) |
| | b) What are iso-seismals? | (6) |
| | c) Disposal of dead bodies (Humans and animals) is very important after earthquakes. How will you plan and what measures you will adopt? | (8) |
| Q8. | Write a short note on : | |
| | a) Role of NGO's in Disaster Management. | (12) |
| | b) What is Zone factor? What are its values for different zones? | (8) |

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.