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Total No. of Pages : 01

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M.Tech (Civil Engg. EL-IV) (2016 Batch) (Sem.-3)**DISASTER REDUCTION & MANAGEMENT****Subject Code : MTCE -218****Paper ID : [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) Explain the factors affecting damage to structures. (8)
b) Discuss the importance of codal provisions for earthquake resistant design of structures. What is the risk if these are not complied with? (12)
- Q2 a) What is Retrofitting? Discuss its importance. (10)
b) Discuss the importance of Demonstrations and Exhibitions. (10)
- Q3 a) As an Engineer, What measures you will take for long term disaster preparedness? (10)
b) '*Care for old and orphans is very important during and after an Earthquake*'. Justify and explain how you will take care for this task. (10)
- Q4 a) Discuss the various causes of Rockslides and remedial measures, you will adopt to control rockslides. (10)
b) Release of poisonous gases is likely to take place during disaster. What steps you will take to avoid/control the same. (10)
- Q5 a) As a consequence of earthquake, Tsunami is likely to occur. Discuss the remedial measures, you will adopt to control/combat Tsunami. (10)
b) What are floods? What are the causes and effects of floods? (10)
- Q6 a) Discuss vulnerability and capacity assessment. Explain its aims and perspectives. (10)
b) Differentiate between two models of response phase of disaster management. (10)
- Q7 a) Define the role of remote sensing in disaster management. (10)
b) What are responsibilities of National Disaster Management Authority? (10)
- Q8 a) List various attributes of emergency management system. (10)
b) Write a note on '*Information management and related technologies in engineering and disaster management*'. (10)