

FACULTY OF ENGINEERING

B.E. 4/4 (Civil) II-Semester (Main) Examination, May / June 2011

Subject : **Disaster Mitigation and Management** (Elective – III)

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions from Part-A and answer any **Five** questions from Part-B.

PART - A (25 Marks)

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|-----|---|---|
| 1. | Distinguish between the human induced and human made disasters. | 2 |
| 2. | What are the jungle fires? | 2 |
| 3. | Write a short note on the intensity of earthquakes. | 3 |
| 4. | Mention the various causes of cyclones. | 3 |
| 5. | Write about the different reasons for the traffic accidents? | 3 |
| 6. | What do you mean by disaster mitigation? | 2 |
| 7. | Define the term hydrometeorological based disasters. | 2 |
| 8. | What are the reasons for the occurrence of avalanches? | 3 |
| 9. | Mention the role of state government in disaster mitigation. | 3 |
| 10. | Identify the element at risk with respect to Tsunami. | 2 |

PART - B (50 Marks)

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|-------|--|---|
| 11.a) | Describe the various causes of earthquakes. | 5 |
| | b) Discuss the different precautionary measures to be taken in the construction of dams and buildings. | 5 |
| 12.a) | Describe the different types and causes of landslides. | 5 |
| | b) What are the remedial measures in controlling the landslides? | 5 |
| 13.a) | What is a Tsunami? Describe the various precautions to be taken for reducing the effect of Tsunami? | 5 |
| | b) What are the effects of avalanches? | 5 |
| 14.a) | Discuss the role of remote sensing in controlling the disasters. | 5 |
| | b) Explain certain applications of GIS in disaster management and mitigations. | 5 |
| 15.a) | Illustrate a chemical industrial hazard that you know. | 5 |
| | b) What are the implications of major power break downs? | 5 |
| 16. | Write notes on : | |
| | i) Drought | 5 |
| | ii) Desertification | 5 |

