

R09

Code No: 09A70110

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, May/June - 2013

**Disaster Management and Mitigation
(Civil Engineering)**

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) What is meant by human ecology? How is it related to disasters?
- b) Describe the methods of monitoring and control of Environmental hazards. [7+8]
- 2.a) Distinguish between an Endogenous and an Exogenous Hazard.
- b) Compare fire, floods and tsunamis. Should be classified as disasters in their ownright, or should they be classified as secondary effects? Comment. [7+8]
- 3.a) Describe how natural hazards such as volcanoes, earthquakes and flooding occur.
- b) Explain their impact on human lives and socio-economic activities [people and Places]. [7+8]
- 4.a) What are extra planetary hazard?
- b) Can you indicate whether such an hazard has occurred in the past on this earth? What was the result of the Hazard with respect to living being survival? [7+8]
- 5.a) What are the post disaster activities undertaken after a major earthquake?
- b) With respect to the East Coast Tsunami suffered by our country indicate the post disaster activities undertaken to mitigate the effects. [7+8]
6. Describe the activities in the following six phases of disaster mitigation work assuming that you are facing cyclone hazard
 - i) Knowledge building and planning
 - ii) Alleviation
 - iii) Prediction
 - iv) Mitigation
 - v) Reaction
 - vi) Recovery[15]
7. Describe the efforts taken by National disaster mitigation authority in the following aspects.
 - a) Provision of Immediate relief measures to disaster affected people
 - b) Prediction of Hazards and Disasters. [7+8]
8. Write short notes on
 - a) Education on Disasters
 - b) Role of Media during disasters
 - c) Role of Standards Institution in disaster Mitigation
 - d) Use of GIS for disaster relief work. [15]

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