

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015**

**Subject Code: 2150003****Date: 15/12/ 2015****Subject Name: Disaster Management****Time: 10:30am to 1:00pm****Total Marks: 70**

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the importance of the subject “Disaster Management” as a part of B. Tech. **07**  
 study.
- (b) Suppose you are appointed as an in-charge of disaster management cell of a village **07**  
 which is categorized under Zone V for Earthquake. Write in brief your plan of  
 action towards
- Prevention and Mitigation of Disasters,
  - Early Warning System, Preparedness and Capacity Development;
  - Awareness During Disaster, Evacuation and Disaster Communication;
  - Search and Rescue, Relief and Rehabilitation;
  - Post-disaster Damage and Needs Assessment;
  - Restoration of Critical Infrastructure;
  - Early Recovery, Reconstruction and Redevelopment
- Q.2** (a) Write short note on Disaster Management. **07**  
 (b) Write short note on Geological Disasters. **07**
- OR**
- (b) Explain about Disaster Communication System. **07**
- Q.3** (a) Explain in brief about global disaster trends. **07**  
 (b) Explain about pre-disaster risk assessment, analysis, risk mapping, zonation and **07**  
 microzonation.
- OR**
- Q.3** (a) Classify disaster and explain effect of climate change on disaster. **07**  
 (b) Explain about disaster safe designs and constructions. **07**
- Q.4** (a) Explain about IDNDR. **07**  
 (b) Explain about National Guidelines and Plans on Disaster Management. **07**
- OR**
- Q.4** (a) Discuss in brief about mega disasters of India and lessons learnt from them. **07**  
 (b) Explain about role of Geo-informatics in disaster management. **07**
- Q.5** (a) Explain about Hyogo Framework of Action. **07**  
 (b) Explain about Structural & Non Structural mitigation of disasters. **07**
- OR**
- Q.5** (a) Explain about role of Government (local, state and national) agencies in disaster **07**  
 management.
- (b) Explain about S & T Institutions for Disaster Management in India. **07**

\*\*\*\*\*