

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2150003****Date:30/11/2018****Subject Name:Institute Elective - Disaster Management****Time: 10:30 AM TO 01:00 PM****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) Classify different types of disaster. **03**  
 (b) Differentiate between disaster management and disaster assessment. **04**  
 (c) Describe the Kerala State Monsoon 2018 Disaster. **07**

- Q.2** (a) Discuss major issues involved in disaster preparedness. **03**  
 (b) Differentiate between Natural Disaster & Man-made Disaster. **04**  
 (c) Discuss how the engineer can become helpful in case of any disaster. **07**

**OR**

- (c) Discuss the role of Information Technology in case of disaster. **07**

- Q.3** (a) How is the magnitude of earthquake measured? **03**  
 (b) Discuss the safety measures to avoid road accidents. **04**  
 (c) Describe any one technical disaster and suggest the steps to avoid such disaster to take place. **07**

**OR**

- Q.3** (a) Discuss the causes of forest fire. **03**  
 (b) Write a note on Capacity Development. **04**  
 (c) Explain in details - Emergency Operation Centre. **07**

- Q.4** (a) Discuss role of NGO in case of disaster. **03**  
 (b) Write a note on Disaster profile of India. **04**  
 (c) Describe salient features of Disaster Management Act-2005. **07**

**OR**

- Q.4** (a) Write the name the international organizations which are playing a role in the case of any disaster. **03**  
 (b) Write a note on National Policy on Disaster Management. **04**  
 (c) State the role of the central government and the state government in the management of disaster. **07**

- Q.5** (a) Discuss the role of DRDO and ISRO for disaster management. **03**  
 (b) Explain the role and functions of a disaster communication system. **04**  
 (c) List the points which are to be observed for earthquake resistant design of the building. **07**

**OR**

- Q.5** (a) Discuss the usefulness of GPS. **03**  
 (b) Discuss the application of Remote Sensing and Geo-informatics in disaster management. **04**  
 (c) List the points which are to be observed for flood safe design and construction. **07**

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