

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2017****Subject Code: 2150003****Date: 20/11/2017****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) Differentiate: Natural Disaster & Man-made Disaster. **03**
 (b) Discuss the role of Indian Space Research Organization for disaster management. **04**
 (c) Giving suitable example discuss the role of an Engineer in case of any natural disaster. **07**

- Q.2** (a) Write a note on biological disaster. **03**
 (b) Discuss major issues involved in disaster preparedness. **04**
 (c) What are the harmful effects of floods? Write down the methods of controlling floods. **07**

OR

- (c) Discuss important guiding principles of rehabilitation and reconstruction. **07**
Q.3 (a) What is epicenter? How is the magnitude of earthquake measured? **03**
 (b) Discuss the safety measures to avoid the train accidents. **04**
 (c) Discuss the role of the disaster management authorities in India. **07**

OR

- Q.3** (a) Write a brief note on effects of cold waves and heat waves. **03**
 (b) Write short note on National Disaster Management Policy. **04**
 (c) Name the technological disasters. Discuss any one such disaster. **07**
Q.4 (a) Discuss in brief the disaster management strategies. **03**
 (b) Write the major features of Emergency Operation Centre. **04**
 (c) Discuss the role of non-government agencies in case of disaster. **07**

OR

- Q.4** (a) Write a note on Disaster Management Cycle. **03**
 (b) Discuss the essential features of damage assessment. **04**
 (c) Explain about disaster resistant designs and constructions. **07**
Q.5 (a) Discuss the process of risk assessment. **03**
 (b) Discuss the prevention and mitigation of disasters. **04**
 (c) Discuss the role of Geo-informatics in disaster management. **07**

OR

- Q.5** (a) Make an overview of recent trends in disaster management. **03**
 (b) Discuss the role of information technology in disaster prevention. **04**
 (c) Explain the role and functions of a disaster communication system. **07**
