

**GUJARAT TECHNOLOGICAL UNIVERSITY****ME – SEMESTER – II (New-Regular) – EXAMINATION – SUMMER 2019****Subject Code: 3700002****Date: 03/06/2019****Subject Name: Disaster Management****Time: 02:30 PM TO 04:30 PM****Total Marks: 50****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. Differentiate between Natural Disaster & Man-made Disaster **05**
- (b) Define the following terms: Disaster, Hazard, risk, capacity, early warning **05**
- Q.2** (a) Explain the importance of the subject “Disaster Management” as a part of your study. **05**
- (b) Define the term risk mapping. Differentiate between global and national disaster risk situation. **05**
- OR**
- (b) Describe the concepts and strategies of disaster mitigation. **05**
- Q.3** (a) Explain the techniques of risk assessment. **05**
- (b) Discuss the application of Remote Sensing and GIS in disaster management **05**
- OR**
- Q.3** (a) Discuss in brief the effects of Tsunami or floods on economic damage, loss of human and animal life and damage to ecosystem. **05**
- (b) How is the study done on disaster prone areas in India? Mention the details of study on areas under seismic zones. **05**
- Q.4** (a) Differentiate between: hazard and disaster. Give examples in each case. **05**
- (b) Discuss the programs of disaster mitigation in India. **05**
- OR**
- Q.4** (a) What is the role of Non-Government and Inter-Governmental Agencies in Disaster Management? **05**
- (b) Discuss for man-made disaster nuclear reactor meltdown – preparedness, risk, issues, remedies, government steps to avoid damages. **05**
- Q.5** (a) How is the magnitude of earthquake measured? Mention the post-disaster issues and remedies in case of landslide to minimize the damage. **05**
- (b) Write a note on National Policy on Disaster Management **05**
- OR**
- Q.5** (a) Discuss major issues involved in disaster preparedness **05**
- (b) Define disaster mitigation and differentiate between structural mitigation and non-structural mitigation. **05**

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