

GUJARAT TECHNOLOGICAL UNIVERSITY
ME – SEMESTER-II(NEW)-EXAMINATION – WINTER-2020

Subject Code:3700002**Date: 04/Feb/2021****Subject Name: Disaster Management****Time: 02:00 PM To 04:00 PM****Total Marks: 50****Instructions:**

1. Attempt any FIVE questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Give classification of Disasters and explain any one in detail. **05**
 (b) Compare the old and recent disaster management policy. Which policies make it modern? **05**
- Q.2** (a) Explain the terms: Disaster, Hazard, Vulnerability, Risk and Capacity **05**
 (b) Describe in detail the Disaster Management cycle with neat sketch **05**
- Q.3** (a) Giving suitable example and discuss the role of an Engineer to avert loss of life and property in case of disaster in power plant. What steps can be taken to prevent repeat of similar disaster in future. **05**
 (b) Write a brief note on effects of cold waves and heat waves **05**
- Q.4** (a) Write short note on National Disaster Management Policy **05**
 (b) What do you mean by Early warning system? Explain about the existing Hazard Forecasting and early Warning Network in India for Tsunami **05**
- Q.5** (a) What is the importance of Kyoto Protocol-based-Euro-norms and its Indian version-Bharat Standard to control pollution to avoid unacceptable risks of devastating climate change? **05**
 (b) Discuss about **05**
 (i) Predicting Earthquake
 (ii) Consequences of Volcano
- Q.6** (a) Enlist and explain various considerations with reference to disaster safe design and construction for Earthquake and Flood **05**
 (b) Give the instruction list that you feel should be given to general public for awareness in case of floods in terms of disaster preparedness. **05**
- Q.7** (a) What do you mean by Structural and Non-Structural Mitigation for Disaster Management? **05**
 (b) How is the magnitude of earthquake measured? Discuss the safety measures to avoid accidents after earthquake. **05**
- Q.8** (a) Explain about role of Geo-informatics in disaster management **05**
 (b) Describe the role of NDRF and SDRF for Disaster Management **05**
