

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2018**

**Subject Code:2150003**

**Date:07/05/2018**

**Subject Name:Institute Elective - Disaster Management**

**Time:02:30 PM to 05:00 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) Define the term Disaster and describe various phases of Disaster. **03**  
(b) What do you mean by the terms: Hazard, Vulnerability, Risk and Capacity? **04**  
(c) Give the classification of different types of Disasters. **07**
- Q.2** (a) Describe the adverse impacts and mitigation measures for any one Hydro-Meteorological Disaster. **03**  
(b) Describe in brief the causes of climate change. **04**  
(c) Discuss the Disaster Management Act 2005 **07**
- OR**
- Q.3** (c) Describe in detail the Disaster Management cycle with neat sketch **07**  
(a) Explain the following terms: Preparedness, Mitigation and Risk Mapping. **03**  
(b) Write a short note on paradigm shift in disaster management in India. **04**  
(c) Explain about National Guidelines and Plans on Disaster Management. **07**
- OR**
- Q.3** (a) Describe the role of NDMA, NDRF and SDRF for Disaster Management. **03**  
(b) Write a note on Disaster and development. **04**  
(c) Discuss Yokohama strategy **07**
- Q.4** (a) Describe the role of National Disaster Communication Network (NDCN) for disaster management. **03**  
(b) What do you mean by Early warning system? Explain about the existing Hazard Forecasting and early Warning Network in India for Tsunami. **04**  
(c) Discuss about mega disasters of India and lessons learnt from them. **07**
- OR**
- Q.4** (a) Describe the role of EOC for the Disaster Management. **03**  
(b) Describe the role of Land use planning and development regulations in Disaster management. **04**  
(c) Describe the disaster safe construction for earthquake in detail. **07**
- Q.5** (a) Enlist S & T institutions for disaster management in India. Explain about any one S & T Institutions for Disaster Management in India. **03**  
(b) Describe various Disaster Communication Systems. **04**  
(c) Describe the application of Remote sensing and GIS for the Disaster Management. **07**
- OR**
- Q.5** (a) Describe the role of GPS in management of Disaster. **03**  
(b) What is the role of Non-Government and Inter-Governmental Agencies in Disaster Management? **04**  
(c) Explain in detail structural and non-structural mitigation measures. **07**

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