

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021****Subject Code:2150003****Date:01/01/2022****Subject Name:Institute Elective - Diaster 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.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Define: Hazard, Vulnerability, Risk and Capacity? **03**
 (b) Define the term Disaster and describe Disaster management Cycle. **04**
 (c) Explain role of an Engineer to deal with Natural and Man-made disaster with examples. **07**
- Q.2** (a) Explain Tsunami Disaster. **03**
 (b) Describe the steps in Preparedness for Flood Disaster. **04**
 (c) Give the detail classification of different types of Disasters. **07**
- OR**
- (c) Discuss important guiding principles of rehabilitation and reconstruction. **07**
- Q.3** (a) Describe the measurement technique for magnitude of earthquake. **03**
 (b) Write short note on National Disaster Management Policy. **04**
 (c) How do you carry out Mapping of prominent disaster prone area? Also discuss the factors affecting such mapping. **07**
- OR**
- Q.3** (a) Discuss effects of Landslides. **03**
 (b) How Economic developments increase the disaster risk? **04**
 (c) Describe about early warning system. Also discuss about elements of early warning system. **07**
- Q.4** (a) Explain Yokohama strategy. **03**
 (b) Explain about role of Geo-informatics in disaster management. **04**
 (c) Explain in detail Disaster Communication System. **07**
- OR**
- Q.4** (a) What are effects of Climate change? **03**
 (b) How NGOs participate in disaster management. **04**
 (c) Explain in detail disaster safe designs and constructions. **07**
- Q.5** (a) Explain International Decade for National Disaster Reduction (IDNDR). **03**
 (b) What is the significance of Land Use Planning and Development Regulations in Disaster Management? **04**
 (c) Write the roles of NDMA, NDRF and SDRF regards to Disaster management in India. **07**
- OR**
- Q.5** (a) What is the role of GIS in Disaster Management? **03**
 (b) Discuss in brief the Disaster Management Act 2005. **04**
 (c) Explain about role of Government (local, state and national) agencies in disaster management with suitable example. **07**
