

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019****Subject Code: 2150003****Date: 10/06/2019****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) Enlist various losses due to flood and earthquake. **03**
(b) What do you mean by the terms: Hazard, Vulnerability, Risk and Capacity? **04**
(c) Discuss national guidelines on disaster management. **07**
- Q.2** (a) Discuss about disaster awareness. **03**
(b) Write a short note on paradigm shift in disaster management in India. **04**
(c) Describe about early warning system. Also discuss about elements of Early warning system. **07**
- OR**
- (c) Enlist and explain various considerations with reference to disaster safe design and construction for earthquake and flood. **07**
- Q.3** (a) Write a short note on recent trends in disaster management. **03**
(b) Describe the role of land use planning and development regulations in disaster management. **04**
(c) Discuss the role of non-government agencies in disaster. **07**
- OR**
- Q.3** (a) Write a note on disaster management cycle. **03**
(b) Discuss the safety measures to avoid the train accidents. **04**
(c) Name the technological disasters. Discuss any one. **07**
- Q.4** (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) Explain the role and functions of a disaster communication system. **07**
- OR**
- Q.4** (a) Describe the role of GPS in management of disaster. **03**
(b) Write the major features of emergency operation centre. **04**
(c) Describe the application of remote sensing and GIS for the disaster management. **07**
- Q.5** (a) Explain the following terms: Preparedness, Mitigation and Risk Mapping. **03**
(b) State the role of NDMA and SDRF in disaster management. **04**
(c) Discuss Yokohama strategy. **07**
- OR**
- Q.5** (a) Define the term Disaster and describe various phases of Disaster **03**
(b) Discuss about climate change and urban disaster. **04**
(c) Discuss about the Disaster Management Act 2005. **07**
