

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– V (New) EXAMINATION – WINTER 2019****Subject Code: 2150003****Date: 27/11/2019****Subject Name: Institute Elective - Disaster Management****Time: 10:30 AM TO 01:00 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) Write a short note on paradigm shift in disaster management in India. **04**  
 (c) Discuss about Yokohama strategy. **07**

- Q.2** (a) Describe the role of GPS in management of Disaster. **03**  
 (b) What do you mean by the terms: Hazard, Vulnerability, Risk and Capacity? **04**  
 (c) What are the harmful effects of floods? Write down the methods of controlling floods. **07**

**OR**

- Q.3** (c) Discuss national guidelines on disaster management. **07**  
 (a) Write a note on disaster management cycle. **03**  
 (b) Discuss the safety measures to avoid the train accidents. **04**  
 (c) Enlist the technological disasters. Discuss any one such disaster. **07**

**OR**

- Q.3** (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) Enlist and explain various considerations with reference to disaster safe design and construction for earthquake and flood. **07**
- Q.4** (a) Discuss about disaster awareness. **03**  
 (b) Describe the role of Land use planning and development regulations in disaster management. **04**  
 (c) Discuss about the Disaster Management Act 2005. **07**

**OR**

- Q.4** (a) Make an overview of recent trends in disaster management. **03**  
 (b) Write the major features of emergency operation centre. **04**  
 (c) Discuss the role of non-government agencies in case of disaster. **07**
- Q.5** (a) Describe the adverse impacts and mitigation measures for any one Hydro-Meteorological Disaster. **03**  
 (b) State the role of NDMA and SDRF in disaster management. **04**  
 (c) Discuss important guiding principles of rehabilitation and reconstruction. **07**

**OR**

- Q.5** (a) Explain about search and rescue activity and its objectives. **03**  
 (b) Discuss the essential features of damage assessment. **04**  
 (c) Discuss briefly about mega disasters of India and lessons learnt from them. **07**

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