

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code: 3160622

Date: 26-05-2025

Subject Name: 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.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Write a short note on paradigm shift in disaster management in India. **03**
(b) Define the term Disaster and describe various phases of disaster. **04**
(c) Explain in detail about Yokohama strategy. **07**

- Q.2** (a) Describe the role of development regulations in disaster management. **03**
(b) Define the terms: Hazard, Vulnerability, Risk and Capacity. **04**
(c) Explain the safety measures (Do's and Don'ts) with respect to before, during and after an earthquake disaster. **07**

OR

- (c) What are the safety measures that can be taken during floods? Also write down the methods of controlling floods. **07**

- Q.3** (a) Write a brief note on Tsunami Disaster. **03**
(b) Write short note on national disaster management policy. **04**
(c) Explain various considerations for disaster safe design and construction with reference to earthquake. **07**

OR

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

- Q.4** (a) Write the major features of Emergency Operation Centre (EOC). **03**
(b) Explain in detail the Early Warning System in disaster communication. **04**
(c) Discuss the role of non-government agencies in case of disaster. **07**

OR

- Q.4** (a) Discuss about Biological Disasters. **03**
(b) Describe the role of GPS in management of Disaster. **04**
(c) Discuss about the Disaster Management Act 2005. **07**

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

OR

- Q.5** (a) Describe the mitigation measures for any two Hydro-Meteorological Disaster. **03**
(b) State the role of NDMA and SDRF in disaster management. **04**
(c) Discuss about "Risk Assessment" and "Capacity Development" with respect to disasters. **07**
