

Seat No./Enrollment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BACHELOR OF ENGINEERING – SEMESTER 6 – EXAMINATION – SUMMER 2026

Subject Code: 3160622

Date: 26/05/2026

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) What are the aims of disaster management? **03**
 - (b) Define the terms: Hazard, Vulnerability, Capacity and Risk **04**
 - (c) Describe natural disasters and man-made disasters. **07**
- Q.2**
- (a) What do you mean by disaster awareness during disaster? **03**
 - (b) Describe the phases of disaster management cycle. **04**
 - (c) Enlist various remedial measures to be taken before, during, and after Earthquake. **07**
- OR**
- Q.2**
- (c) Enlist various causes of the flood. What steps you should take during and after flood to minimize the loss of lives and property? **07**
- Q.3**
- (a) Write note on use of GPS in disaster. **03**
 - (b) Discuss in brief Risk assessment and analysis & Risk Mapping. **04**
 - (c) Explain Role of Government (local, state and national) for disaster management. **07**
- OR**
- Q.3**
- (a) Describe the application of remote sensing for the disaster management. **03**
 - (b) Explain in brief zonation and micro zonation for disaster management. **04**
 - (c) Describe the role of NDMA and NDRF for Disaster Management. **07**
- Q.4**
- (a) Discuss about Yokohama strategy. **03**
 - (b) Write a note on disaster profile of India. **04**
 - (c) Write a short note on salient features of disaster management act, 2005. **07**
- OR**
- Q.4**
- (a) Write short note on IDNDR. **03**
 - (b) What is the role of National Executive Committee (NEC) at state level and at district level? **04**
 - (c) Discuss the role of non-government agencies in disaster management. **07**
- Q.5**
- (a) Explain lessons learnt from previous disasters in India. **03**
 - (b) Describe the role of DRDO and ISRO for disaster management. **04**
 - (c) Describe how you will use GPS technology for during and after disaster. **07**

OR

- Q.5**
- (a)** Write short note on role of information technology in disaster management. **03**
 - (b)** Enlist the Safety and training Institutions in India for disaster management. **04**
 - (c)** Describe how you will use remote sensing and GIS technology for volcanic eruption and cyclone disaster **07**
