

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V EXAMINATION – WINTER 2025****Subject Code:3150913****Date:17-11-2025****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.

MARKS

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|------------|--|-----------|
| Q.1 | (a) Differentiate: Natural Disaster & Man-made Disaster. | 03 |
| | (b) Explain Risk and Risk management. | 04 |
| | (c) What is Hazard, Vulnerability and Capacity to cope up? Explain how they are inter related | 07 |
| Q.2 | (a) Discuss about disaster awareness. | 03 |
| | (b) How NGOs participate in disaster management. | 04 |
| | (c) What is Disaster Management? Explain key stages of Disaster Management. | 07 |
| OR | | |
| | (c) Explain any two major disasters occurred in INDIA in detail. | 07 |
| Q.3 | (a) State reasons for forest fire. | 03 |
| | (b) What is Avalanche? Give its causes. | 04 |
| | (c) Describe the steps in Preparedness for Flood Disaster. | 07 |
| OR | | |
| Q.3 | (a) Explain in detail how to avoid road accidents. | 03 |
| | (b) Explain landslide disaster prevention and mitigation. | 04 |
| | (c) Explain the Earthquake and also give various steps for prevention and protection from Earthquake | 07 |
| Q.4 | (a) What is disaster risk Assessment? | 03 |
| | (b) Explain importance of emergency operation Centre. | 04 |
| | (c) Explain Yokohama Strategy in detail. | 07 |
| OR | | |
| Q.4 | (a) State role of NDRF. | 03 |
| | (b) Write a short note on paradigm shift in disaster management in India. | 04 |
| | (c) Explain International Decade for National Disaster Reduction (IDNDR). | 07 |
| Q.5 | (a) Write the roles of NDMA regards to Disaster management in India. | 03 |
| | (b) What is the role of GIS in Disaster Management? | 04 |
| | (c) Discuss in brief the Disaster Management Act 2005. | 07 |
| OR | | |
| Q.5 | (a) Enlist S&T Institutionsfor Disaster Management in India. | 03 |
| | (b) Explain role of an Engineer to deal with Disaster. | 04 |
| | (c) Importance of DRDO and ISRO for disaster management in India. Explain in brief. | 07 |
