

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022****Subject Code:2150003****Date:06-01-2023****Subject Name:Institute Elective - Diaster 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
Q.1 (a) Explain in detail how to avoid road accidents.	03
(b) What do you mean by the terms: Hazard, Vulnerability, Risk and Capacity?	04
(c) Explain with reference to earthquake (1) What is the difference between magnitude and Intensity (2) consequences of earthquake.	07
Q.2 (a) Describe the role of GPS in management of Disaster.	03
(b) Write a short note on paradigm shift in disaster management in India.	04
(c) Explain landslide disaster prevention and mitigation.	07
OR	
(c) What are the main objectives of YOKOHAMA strategy? Explain in brief.	07
Q.3 (a) Describe the role of NDMA, NDRF and SDRF for Disaster Management.	03
(b) Discuss the safety measures to avoid the train accidents.	04
(c) Explain the role and functions of a disaster communication system.	07
OR	
Q.3 (a) State the names of international organization for disaster management.	03
(b) Explain reasons for forest fire.	04
(c) Which is the major chemical industrial catastrophe in India? Discuss in detail preparedness to combat such incident.	07
Q.4 (a) Enlist S & T institutions for disaster management in India. Explain about any one S & T Institutions for Disaster Management in India.	03
(b) What is the role of Non-Government and Inter-Governmental Agencies in Disaster Management?	04
(c) Explain about role of government agencies in disaster management at various levels.	07
OR	
Q.4 (a) Define the term Disaster and describe various phases of Disaster.	03
(b) Write the major features of emergency operation centre.	04
(c) Discuss national guidelines on disaster management.	07
Q.5 (a) Write a note on disaster management cycle.	03
(b) Explain the functioning of national execution committee (NEC).	04
(c) Discuss Hyogo framework.	07
OR	
Q.5 (a) Enlist various losses due to flood and earthquake.	03
(b) Explain prevention and mitigation of disaster.	04
(c) Discuss in brief about mega disasters of India and lessons learnt from them.	07
