

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code: 3160622****Date:10-07-2023****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 is disaster management? **03**  
(b) Give vulnerability profile of India. **04**  
(c) Describe natural disasters and man-made disasters. **07**

- Q.2** (a) How development may cause disasters? **03**  
(b) Give a comprehensive list of various types of disasters. **04**  
(c) Write short note on Geological disasters. **07**

**OR**

- (c) Which are the effects of earthquake? **07**
- Q.3** (a) Explain different types of the Landslides. **03**  
(b) Discuss environmental impact of mining. **04**  
(c) What is tsunami? What are its causes? **07**

**OR**

- Q.3** (a) Which are the causes of floods? **03**  
(b) Write short on: Method of flood control. **04**  
(c) What is cyclone? What are its characteristics? **07**
- Q.4** (a) Give features of disaster management cycle. **03**  
(b) Explain Early Warning System (EWS). **04**  
(c) What is climate change? Explain causes of climate change? **07**

**OR**

- Q.4** (a) Write short on : IDNDR **03**  
(b) Discuss major issues involved in disaster preparation. **04**  
(c) Explain earthquake resistant design and construction. **07**

- Q.5**      (a) Enlist the Safety and training Institutions in India for disaster management. **03**
- (b) What is role of GIS in disaster management? **04**
- (c) Explain in detail structural mitigation for disaster management. **07**

**OR**

- Q.5**      (a) Describe the role of GPS in management of disaster. **03**
- (b) Discuss the safety measures to avoid the train accidents. **04**
- (c) Name the technological disasters. Discuss any one. **07**

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