

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024

Subject Code:3160622

Date:28-11-2024

Subject Name:Disaster Management

Time:02:30 PM TO 05:00 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) Differentiate: Natural Disaster & Man-made Disaster. **03**
(b) Define the terms: Hazard, Vulnerability, Capacity and Risk. **04**
(c) Explain in detail about different phases of Disaster management. **07**

- Q.2** (a) Discuss about disaster awareness. **03**
(b) Give classification of disasters with examples. **04**
(c) Describe structural mitigation for disaster management. **07**

OR

- (c) Enlist the technological disasters. Discuss any one such disaster **07**

- Q.3** (a) Describe the application of remote sensing for the disaster management. **03**
(b) Give the classification of various floods. **04**
(c) Explain the Earthquake and also give various steps for prevention and protection from Earthquake. **07**

OR

- Q.3** (a) Describe the application GIS for the disaster management. **03**
(b) Explain general safety precautions during and after flood disaster. **04**
(c) Enlist and explain various considerations with reference to disaster safe design and construction for Earthquake **07**

- Q.4** (a) Enlist various types of Landslides. **03**
(b) Explain effect of climate change on disaster. **04**
(c) Explain the cyclone with its formation process. **07**

OR

- Q.4** (a) What are the important causes of accidents in Mining? **03**
(b) Discuss about Yokohama strategy. **04**
(c) Explain do's and don'ts during nuclear emergency. **07**

- Q.5** (a) Explain lessons learnt from previous disasters in India **03**
(b) What is the role of National Executive Committee (NEC) at state level and at district level? **04**
(c) Explain the features of the Incident Response System. **07**

OR

- Q.5** (a) Discuss the role of Information Technology in case of disaster. **03**
(b) Write short note on National Disaster Management Policy **04**
(c) Explain the role and functions of a disaster communication system **07**
