

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022

Subject Code:3150913

Date:04-01-2023

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.

MARKS

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|------------|--|-----------|
| Q.1 | (a) Define the terms: Hazard, Vulnerability, and Risk. | 03 |
| | (b) Write the major features of emergency operation centre. | 04 |
| | (c) Describe the role of GPS in management of Disaster. | 07 |
| Q.2 | (a) Define the term Disaster and enlist various phases of disaster. | 03 |
| | (b) Discuss about disaster awareness. | 04 |
| | (c) Write a brief note on effects of cold waves and heat waves. | 07 |
| | OR | |
| | (c) Enlist various losses due to flood and earthquake. | 07 |
| Q.3 | (a) Classify different types of disaster. | 03 |
| | (b) Write a note on Capacity Development. | 04 |
| | (c) Enlist the technological disasters. Discuss any one such disaster. | 07 |
| | OR | |
| Q.3 | (a) Classify different types of Hazard. | 03 |
| | (b) Discuss about Yokohama strategy. | 04 |
| | (c) Describe the adverse impact and mitigation measures for any one Hydro-metrological disaster. | 07 |
| Q.4 | (a) Explain about global disaster trends. | 03 |
| | (b) Explain about search and rescue activity and its objectives. | 04 |
| | (c) Explain the role and functions of a disaster communication system. | 07 |
| | OR | |
| Q.4 | (a) Explain flood forecasting in India. | 03 |
| | (b) State the role of NDMA and SDRF in disaster management. | 04 |
| | (c) Write a note on disaster management cycle. | 07 |
| Q.5 | (a) Describe about early warning system. | 03 |
| | (b) Enlist the Safety and training institution in India for disaster management. | 04 |
| | (c) Describe the application of remote sensing and GIS for the disaster management. | 07 |
| | OR | |
| Q.5 | (a) Discuss the role of Information Technology in case of disaster. | 03 |
| | (b) Write a short note on structural mitigation for disaster management. | 04 |
| | (c) Describe the role of Disaster Safe Designs and Constructions in disaster management. | 07 |
