

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2023****Subject Code:3150913****Date:05-12-2023****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) Explain in brief importance of disaster management in the present scenario. | 03 |
| | (b) Define following terms in context of disaster.
1) Disaster 2) Coping capacity 3) Mitigation 4) Risk | 04 |
| | (c) What is disaster management? Explain key stages of disaster management. | 07 |
| Q.2 | (a) What is Avalanche? Give its causes. | 03 |
| | (b) Explain role of technology in disaster management. | 04 |
| | (c) What is Vulnerability? Explain its types and factors contributing to it. | 07 |
| OR | | |
| | (c) What is NDMA? Explain its mandate. | 07 |
| Q.3 | (a) Discuss effects of Landslides. | 03 |
| | (b) Give classification of Lightning. | 04 |
| | (c) What is Drought? Explain various types of Droughts in brief. | 07 |
| OR | | |
| Q.3 | (a) Explain Tsunami Disaster. | 03 |
| | (b) Discuss disaster mitigation. | 04 |
| | (c) Discuss different manmade disaster in details. | 07 |
| Q.4 | (a) Explain disaster risk Assessment. | 03 |
| | (b) Explain disaster risk analysis process. | 04 |
| | (c) Explain information and communication technology (ICT) for flood management. | 07 |
| OR | | |
| Q.4 | (a) Explain about search and rescue activity and its objectives. | 03 |
| | (b) Write short note on Capacity development. | 04 |
| | (c) What is Emergency operation Center? Also state its functions. | 07 |
| Q.5 | (a) State the role of SDRF. | 03 |
| | (b) Write short note on NDRF. | 04 |
| | (c) Explain any two major disasters in INDIA in detail | 07 |
| OR | | |
| Q.5 | (a) Explain the role of GPS in disaster management. | 03 |
| | (b) Write short note on National plan on disaster management. | 04 |
| | (c) What is the role of National Executive Committee (NEC) at state level and at district level? | 07 |
