

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019****Subject Code: 2150003****Date: 10/06/2019****Subject Name: Institute Elective - 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.

- |            |   |           |
|------------|---|-----------|
| <b>Q.1</b> | (a) Enlist various losses due to flood and earthquake.  | <b>03</b> |
|            | (b) What do you mean by the terms: Hazard, Vulnerability, Risk and Capacity?  | <b>04</b> |
|            | (c) Discuss national guidelines on disaster management.   | <b>07</b> |
| <b>Q.2</b> | (a) Discuss about disaster awareness.   | <b>03</b> |
|            | (b) Write a short note on paradigm shift in disaster management in India.   | <b>04</b> |
|            | (c) Describe about early warning system. Also discuss about elements of Early warning system.                                   | <b>07</b> |
| <b>OR</b>  |   |           |
| <b>Q.3</b> | (c) Enlist and explain various considerations with reference to disaster safe design and construction for earthquake and flood. | <b>07</b> |
|            | (a) Write a short note on recent trends in disaster management.   | <b>03</b> |
|            | (b) Describe the role of land use planning and development regulations in disaster management.                                  | <b>04</b> |
| <b>Q.3</b> | (c) Discuss the role of non-government agencies in disaster.  | <b>07</b> |
|            | (a) Write a note on disaster management cycle.  | <b>03</b> |
|            | (b) Discuss the safety measures to avoid the train accidents.   | <b>04</b> |
| <b>Q.4</b> | (c) Name the technological disasters. Discuss any one.  | <b>07</b> |
|            | (a) Write a brief note on effects of cold waves and heat waves.   | <b>03</b> |
|            | (b) Write short note on national disaster management policy.  | <b>04</b> |
| <b>Q.4</b> | (c) Explain the role and functions of a disaster communication system.  | <b>07</b> |
|            | (a) Describe the role of GPS in management of disaster.   | <b>03</b> |
|            | (b) Write the major features of emergency operation centre.   | <b>04</b> |
| <b>Q.5</b> | (c) Describe the application of remote sensing and GIS for the disaster management.   | <b>07</b> |
|            | (a) Explain the following terms: Preparedness, Mitigation and Risk Mapping.   | <b>03</b> |
|            | (b) State the role of NDMA and SDRF in disaster management.   | <b>04</b> |
| <b>Q.5</b> | (c) Discuss Yokohama strategy.  | <b>07</b> |
|            | (a) Define the term Disaster and describe various phases of Disaster  | <b>03</b> |
|            | (b) Discuss about climate change and urban disaster.  | <b>04</b> |
| <b>Q.5</b> | (c) Discuss about the Disaster Management Act 2005.   | <b>07</b> |

\*\*\*\*\*