| Seat No.: | Enrolment No |
|-----------|--------------|
|-----------|--------------|

GUJARAT TECHNOLOGICAL UNIVERSITY

ME- SEMESTER II- EXAMINATION - SUMMER 2015

| Sub | ject Code: 2722014 | Date: 03/06/2015 |
|-----|--------------------|------------------|
| | | |

Subject Name: Disaster management and mitigation Time: 2:30 PM – 5:00 PM **Total Marks: 70**

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

| Q.1 | (a) | Differentiate between Natural and man-made disasters. Explain about any one disaster in detail. | 07 |
|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | (b) | Explain how public awareness is helpful in risk reduction. | 97 |
| Q.2 | (a) | What are the factors to be considered while planning the rebuilding works after a major disaster due to earthquake? | 07 |
| | (b) | What are the necessary steps to be taken to avoid dangerous epidemics after flood disaster? | 07 |
| | | OR | |
| | (b) | What is GIS? Explain its technique | 07 |
| Q.3 | (a) | Assume that you are responsible for transporting relief supplies to a remote mountainous village which has been hit by an earthquake. What types of supplies will you consider carrying? What are your priorities? | 07 |
| | (b) | Explain (i) Types of remote sensing (ii) Data acquisition technique OR | 07 |
| Q.3 | (a) | Write down the various Disaster Mitigation Strategies. | 07 |
| | (b) | Give an account on risk assessment in plan area and identification of risks with examples. | 07 |
| Q.4 | (a) | Explain in detail the rehabilitation, reconstruction and recovery after the Bhuj Earthquake in Gujarat. | 14 |
| | | OR | |
| Q.4 | (a) | Write a note on "Emerging trends in disaster mitigation" | 07 |
| | (b) | Explain briefly about the human behavior and response management during relief measures. | 07 |
| Q.5 | (a) | Write the basic concepts of risk assessment and vulnerability analysis. | 07 |
| | (b) | You are part of a rescue team that is responding to a serious train accident. A mother and her child are grievously injured and require immediate aid. You only have medicines for one person. Whom would you choose to save? Give the rationale for the decision and discuss the ethical dilemmas you faced while making the decision. | 07 |
| | | OR | 0.00 |
| Q.5 | (a) (b) | Write on aspects related to problem areas in emergency response in disaster management. Write on role of team and coordination in disaster mitigation. | 07 07 |