

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2017

Subject Code: 2150003

Date: 20/11/2017

Subject Name: Institute Elective - 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.

- Q.1**
- | | |
|--|-----------|
| (a) Differentiate: Natural Disaster & Man-made Disaster. | 03 |
| (b) Discuss the role of Indian Space Research Organization for disaster management. | 04 |
| (c) Giving suitable example discuss the role of an Engineer in case of any natural disaster. | 07 |

- Q.2**
- | | |
|---|-----------|
| (a) Write a note on biological disaster. | 03 |
| (b) Discuss major issues involved in disaster preparedness. | 04 |
| (c) What are the harmful effects of floods? Write down the methods of controlling floods. | 07 |

OR

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|--|-----------|
| (c) Discuss important guiding principles of rehabilitation and reconstruction. | 07 |
| Q.3 (a) What is epicenter? How is the magnitude of earthquake measured? | 03 |
| (b) Discuss the safety measures to avoid the train accidents. | 04 |
| (c) Discuss the role of the disaster management authorities in India. | 07 |

OR

- Q.3**
- | | |
|--|-----------|
| (a) Write a brief note on effects of cold waves and heat waves. | 03 |
| (b) Write short note on National Disaster Management Policy. | 04 |
| (c) Name the technological disasters. Discuss any one such disaster. | 07 |
- Q.4**
- | | |
|--|-----------|
| (a) Discuss in brief the disaster management strategies. | 03 |
| (b) Write the major features of Emergency Operation Centre. | 04 |
| (c) Discuss the role of non-government agencies in case of disaster. | 07 |

OR

- Q.4**
- | | |
|---|-----------|
| (a) Write a note on Disaster Management Cycle. | 03 |
| (b) Discuss the essential features of damage assessment. | 04 |
| (c) Explain about disaster resistant designs and constructions. | 07 |
- Q.5**
- | | |
|---|-----------|
| (a) Discuss the process of risk assessment. | 03 |
| (b) Discuss the prevention and mitigation of disasters. | 04 |
| (c) Discuss the role of Geo-informatics in disaster management. | 07 |

OR

- Q.5**
- | | |
|--|-----------|
| (a) Make an overview of recent trends in disaster management. | 03 |
| (b) Discuss the role of information technology in disaster prevention. | 04 |
| (c) Explain the role and functions of a disaster communication system. | 07 |
