

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024

Subject Code:3150913

Date:25-11-2024

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 importance of disaster management subject for Engineering students. | 03 |
| | (b) | Define following terms in context of disaster.
1) Disaster 2) Vulnerability 3) Mitigation 4) Risk | 04 |
| | (c) | Give classification of disasters with examples. | 07 |
| Q.2 | (a) | What are the harmful effects of floods? | 03 |
| | (b) | Describe the measurement technique for magnitude of earthquake. | 04 |
| | (c) | Explain the flood disaster and also give various steps to be taken before and during flood. | 07 |
| OR | | | |
| | (c) | Design criteria for earthquake resistant building. Explain in detail. | 07 |
| Q.3 | (a) | What is Seismic microzonation? Explain in brief. | 03 |
| | (b) | Explain importance of emergency operation Centre. | 04 |
| | (c) | Describe about early warning system. Also discuss about elements of early warning system | 07 |
| OR | | | |
| Q.3 | (a) | Discuss about climate change: cause for Natural Disaster. | 03 |
| | (b) | Explain about search and rescue activity and its objectives. | 04 |
| | (c) | Explain Yokohama Strategy. | 07 |
| Q.4 | (a) | Enlist various major disasters in INDIA. | 03 |
| | (b) | Enlist different Government agencies for disaster management. Explain role of any one. | 04 |
| | (c) | Discuss in brief the Disaster Management Act 2005. | 07 |
| OR | | | |
| Q.4 | (a) | Write the roles of SDRF regards to Disaster management in India. | 03 |
| | (b) | Explain role of an Engineer to deal with Man-made disaster with an example. | 04 |
| | (c) | How NGOs participate in disaster management? | 07 |
| Q.5 | (a) | Explain in brief working of GPS. | 03 |
| | (b) | Explain in brief importance of DRDO for disaster management in India. | 04 |
| | (c) | Describe the application of remote sensing and GIS for the disaster management. | 07 |

OR

Q.5	(a)	Explain the role of GPS in disaster management.	03
	(b)	Enlist S&T Institutionsfor Disaster Management in India.	04
	(c)	Explain about any one S&T Institutionsfor Disaster Management in India	07
