

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020****Subject Code:3150913****Date:22/01/2021****Subject Name:Disaster Management****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Differentiate: Natural Disaster & Man-made Disaster.	03
	(b) What is Drought? Explain various types of Droughts in brief.	04
	(c) Explain the Hazard in detail with its various types.	07
Q.2	(a) Enlist various indications of possible flooding.	03
	(b) Give classification of disasters with examples.	04
	(c) Explain the Earthquake and also give various steps for prevention and protection from Earthquake.	07
Q.3	(a) Enlist various types of Landslides.	03
	(b) What are the important causes of accidents in Mining?	04
	(c) Enlist and explain various considerations with reference to disaster safe design and construction for Earthquake and Flood.	07
Q.4	(a) Give the classification of various floods.	03
	(b) Discuss about (1) Predicting Earthquake (2) Consequences of Volcano	04
	(c) Explain the cyclone with its formation process.	07
Q.5	(a) What is Avalanche? Give its causes.	03
	(b) Give classification of Lightning.	04
	(c) Explain Forest fires and give precautions and measures for forest fires.	07
Q.6	(a) Give consequences and effects of Epidemics.	03
	(b) Write short note on National Disaster Management Policy.	04
	(c) Preventive and Protective Measures against Avalanche	07
Q.7	(a) Explain disaster risk mapping.	03
	(b) Explain Yokohama Strategy.	04
	(c) Explain disaster management cycle in detail with figure.	07
Q.8	(a) What is the role of National Executive Committee (NEC) at state level and at district level?	03
	(b) How can we make buildings resistant to earthquakes with earthquake engineering?	04
	(c) Explain various major disasters in INDIA in detail.	07

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021****Subject Code:3150913****Date:15/12/2021****Subject Name: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.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

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|------------|---|-----------|
| Q.1 | (a) Define the term Disaster? Explain the causes of disaster. | 03 |
| | (b) Give classification of disasters with examples. | 04 |
| | (c) Draw and explain the disaster management cycle | 07 |
| Q.2 | (a) Enlist various types of Landslides. | 03 |
| | (b) What is Drought? Explain various types of Droughts in brief. | 04 |
| | (c) Explain Causes, Effect and what to do before and after the biological disaster. | 07 |
| OR | | |
| | (c) Explain the Hazard in detail with its various types. | 07 |
| Q.3 | (a) Enlist various indications of possible flooding | 03 |
| | (b) Discuss about (1) Predicting Earthquake (2) Consequences of Volcano | 04 |
| | (c) Name the technological disasters. Discuss any one such disaster in detail. | 07 |
| OR | | |
| Q.3 | (a) What is disaster Management? Describe natural and man-made disaster. | 03 |
| | (b) Give causes of fire and precautionary measures. | 04 |
| | (c) Enlist and explain various considerations with reference to disaster safe design and construction for Earthquake and Flood. | 07 |
| Q.4 | (a) Give consequences and effects of Epidemics | 03 |
| | (b) Give features of disaster management policy | 04 |
| | (c) Explain about role of Geo-informatics in disaster management | 07 |
| OR | | |
| Q.4 | (a) Explain disaster risk mapping. | 03 |
| | (b) Write a short note on Disaster Management Act, 2005 | 04 |
| | (c) Explain various major disasters in INDIA in detail. | 07 |
| Q.5 | (a) What is the role of National Executive Committee (NEC) at state level and at district level? | 03 |
| | (b) Explain Yokohama Strategy. | 04 |
| | (c) Preventive and Protective Measures against Avalanche | 07 |
| OR | | |
| Q.5 | (a) Compare the Heat wave and Cold Wave | 03 |
| | (b) Give classification of Lightning. | 04 |
| | (c) Explain Forest fires and give precautions and measures for forest fires | 07 |

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2021****Subject Code:3150913****Date:07/09/2021****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
Q.1	(a) What do you mean by the Risk, Vulnerability and Capacity?	03
	(b) Define Hazard. Describe Classification of Hazard.	04
	(c) Explain concept of Disaster management. Describe aims and importance of Disaster management.	07
Q.2	(a) Enlist S & T institutions for disaster management in India. Explain about any one S & T Institutions for Disaster Management in India.	03
	(b) Explain different phases of Disaster management.	04
	(c) Explain Earthquake as Geological disaster. (causes, classification magnitude base & distance base, Nature, Consequence, Prevention and Protection against earth quake)	07
	OR	
	(c) Explain Flood as Hydro-meteorological Disaster. (causes, types, consequences, prevention and protection against flood, Flood management)	07
Q.3	(a) Describe the application of remote sensing for the disaster management.	03
	(b) Describe the application GIS for the disaster management.	04
	(c) Explain Epidemics as Biological disaster (causes, classification, Consequence, Prevention and Protection against Epidemics)	07
	OR	
Q.3	(a) Describe the role of GPS in management of Disaster.	03
	(b) Explain effect of climate change on disaster.	04
	(c) Explain Chemical disaster as Technological disaster. (causes, impact, Prevention and Protection against chemical disaster)	07
Q.4	(a) List outs Latest Technologies used for disaster management.	03
	(b) How can we make buildings and homes resistant to Hurricanes?	04
	(c) Explain Building collapse as Manmade disaster. (causes, Consequence, Prevention and Protection against building collapse).	07
	OR	
Q.4	(a) Make an overview of recent trends in disaster management.	03
	(b) Write a short note on paradigm shift in disaster management in India.	04
	(c) Discuss about the Disaster Management Act 2005.	07
Q.5	(a) Explain about search and rescue activity and its objectives.	03
	(b) Explain Relief and Rehabilitation approach for disaster management.	04
	(c) Discuss about Yokohama strategy.	07
	OR	
Q.5	(a) Discuss about disaster awareness.	03
	(b) Explain lessons learnt from previous disasters in India	04
	(c) State and Explain the role of NDMA, NEC, NIDM, NDRFF, AF, SDRF in disaster management.	07

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V(NEW) EXAMINATION – SUMMER 2022****Subject Code:3150913****Date:02/06/2022****Subject Name: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.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What are the aims of disaster management?	03
	(b) Define the terms: Hazard, Vulnerability, Risk and Capacity?	04
	(c) Write a short note on paradigm shift in disaster management in India.	07
Q.2	(a) What are the main causes of landslides?	03
	(b) Write a brief note about the precaution of floods.	04
	(c) Enlist various remedial measures to be taken before, during, and after Earthquake.	07
	OR	
	(c) Enlist various causes of the tsunami. What steps you should take during and after tsunami to minimize the loss of lives and property?	07
Q.3	(a) Explain how to control biological disaster?	03
	(b) What preventive measures you will take to reduce the intensity of drought?	04
	(c) Enlist various technological disasters. Discuss the industrial disaster with one case study.	07
	OR	
Q.3	(a) What are the preventive measures against Mining disasters?	03
	(b) Write short notes on the early warning system.	04
	(c) Discuss the major features of emergency operation centre.	07
Q.4	(a) Describe the role of NDMA and NDRF for Disaster Management.	03
	(b) Explain Yokohama Strategy.	04
	(c) Write a short note on salient features of disaster management act, 2005.	07
	OR	
Q.4	(a) Describe the process of risk assessment.	03
	(b) What is the role of National Executive Committee (NEC) at state level and at district level?	04
	(c) Discuss the role of non-government agencies in disaster management.	07
Q.5	(a) Describe the role of DRDO and ISRO for disaster management.	03
	(b) Enlist S & T institutions for disaster management in India. Explain about any one S & T Institutions for Disaster Management in India.	04
	(c) Describe the usefulness of remote sensing and GIS.	07
	OR	
Q.5	(a) Write short note on role of information technology in disaster management.	03
	(b) Describe the role of GPS in management of disaster.	04
	(c) What is land use planning? What are different features of land use planning?	07
