

# **INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous) Dundigal, Hyderabad-500043

#### **CIVIL ENGINEERING**

### **TUTORIAL QUESTION BANK**

Course Title	DISASTER MANGEMENT AND MITIGATION					
Course Code	ACE533	ACE533				
Programme	B.Tech	B.Tech				
Semester	V /CE	V /CE				
Course Type	Elective					
Regulation	IARE - R16					
	Theory Practic				ical	
Course Structure	Lectures	Tutorials	Credits	Laboratory	Credits	
	3		3	-	-	
Chief Coordinator	Mr.S.Selvaprakash, Assistant Professor					
Course Faculty	Dr. JSR Prasad, Professor					

#### **COURSE OBJECTIVES:**

The co	The course should enable the students to:					
I Identify the major disaster types. and their environmental impacts. Develop an Understanding of v and how the modern disaster management is involved with Pre-disaster and post-disaster activities						
II Recognize and develop awareness of the chronological phases of natural disaster response and r relief operations						
III	Understand how thephases of each they are parallel and how differ. Understand the key concepts of disaster management related to development					
IV	Understand the "relief system" and the "disaster victim." Identify the organizations that are involved in natural disaster assistance.					

#### **COURSE OUTCOMES (COs):**

CO 1	Understand to describe the basic types of Environmental hazards and disasters. Understand how to react effectively to natural, man-made, and technological threats.
CO 2	Understand how to react effectively to natural, man-made, and planetary hazards.
CO 3	Explore the history of the field and comprehend how past events are earthquake, landslides and volcanichazards.
CO 4	Describe the basic concepts of the emergency management cycle mitigation, preparedness, response, and recovery.
CO 5	Recognizes the stakeholders in disaster management system, their jurisdiction and responsibilities.

#### **COURSE LEARNING OUTCOMES (CLOs):**

ACE533.01	Integrate knowledge and to analyze, evaluate and manage the different public health aspects of disaster events at a local and global levels, even when limited information is available.
ACE533.02	Analyze and evaluate the environmental, social, cultural, economic, legal and
	organizational aspects influencing vulnerabilities and capacities to face disasters. and to
	know about different types of environmental hazards
ACE533.03	Obtain knowledge on different types of natural and man- made disasters. Work
	theoretically and practically in the processes of disaster management (disaster risk
	reduction, response, and recovery)
ACE533.04	Describe endogenous and exogenous hazards their harmful effects to the environment.
	Case studies of India
ACE533.05	Analyze, and communicate information on risks, relief needs and order to formulate
1101335.05	strategies for mitigation.
ACE533.06	Understand the Mitigation and control measures of exogenous hazards.
ACE555.00	Olderstand the Whitgation and control measures of exogenous nazards.
ACE533.07	Understand the Mitigation and control measures of endogenous hazards.
ACE533.08	Understand different approaches of different phases.
ACE533.09	Capacity to analyze and evaluate research work on the field of emergencies and disaster.
ACE533.10	Demonstrating insight into the potential and limitations of science, its role in society
	and people's responsibility for how it is used. And emerging approaches of disasters.
ACE533.11	Analyze the future scenarios with the ability to clearly present and discuss their
	conclusions and the knowledge and arguments behind them.
ACE533.12	Understand integrated approach for disaster preparedness, mitigation & awareness;
1102000112	mitigation.
ACE533.13	Understand different types of institution for disaster mitigation and management.
ACE533.14	Design and perform research on the different aspects of the emergencies and disaster.
ACE533.15	Relate their interconnections, particularly in the field of the Public Health aspects of the
	disasters.

## TUTORIAL QUESTION BANK

	MODULE- I			
	ENVIORNMENTAL HAZARDS AND DISAS	TER		
C No	Part - A (Short Answer Questions)           QUESTIONS	Diagona	Commo	Course
S No	QUESTIONS	Blooms Taxonomy Level	Course Outcomes	Learning Outcomes (CLOs)
1	Write a note on environmental hazards.	Remember	CO 1	CACE533.01
2	What is the difference between natural disaster and man-made disasters?	Understand	CO 1	CACE533.02
3	Write two impact of disaster has on community.	Remember	CO 1	CACE533.02
4	Write briefly about how hazards can become a disaster.	Remember	CO 1	CACE533.02
5	What is a disaster?	Remember	CO 1	CACE533.02
6	Discuss the environmental stress in the atmosphere.	Remember	CO 1	CACE533.0
7	Write the concept of Environmental Hazards.	Remember	CO 1	CACE533.0
8	Define biological hazards.	Remember	CO 1	CACE533.0
9	What is mean by flash flood?	Remember	CO 1	CACE533.0
10	Discuss about chemical and physical hazards.	Remember	CO 1	CACE533.0
11	Give some examples of stressors	Remember	CO 1	CACE533.0
12	Define hazard	Remember	CO 1	CACE533.02
13	Define disaster	Understand	CO 1	CACE533.02
14	Explain the concept of disaster.	Understand	CO 1	CACE533.0
15	Define physical hazards with an example	Remember	CO 1	CACE533.0
16	Write the various management guidelines for temporary shelter provision during disasters.	Understand	CO 1	CACE533.02
17	Define environmental stress	Understand	CO 1	CACE533.02
18	Write a note on the stressors of environment.	Remember	CO 1	CACE533.02
19	What is meant by human ecology?	Understand	CO 1	CACE533.0
20	Discuss the role and functions of a Disaster Manager.	Remember	CO 1	CACE533.02
1	Part - B (Long Answer Questions)		<b>GO 1</b>	G + GE 522 01
1	Describe the various management guidelines for temporary shelter provision during disasters.	Remember	CO 1	CACE533.01
2	Define environmental stress. Write a note on the stressors of environment.	Remember	CO 1	CACE533.01
3	Write an account on different approaches to disaster management and relation with human ecology.	Understand	CO 1	CACE533.04
4	Write a note on chemical and biological hazards.	Remember	CO 1	CACE533.03
5	Write an account on geomorphic (geological) hazards.	Remember	CO 1	CACE533.03
6	Discuss Community-Based Disaster Risk Reduction Process.	Understand	CO 1	CACE533.03
7	Write down the types of environmental hazards and Disasters?	Understand	CO 1	CACE533.02
8	Define human Ecology? What are the field of applications in geographical Researchers.	Understand	CO 1	CACE533.02
9	Discuss about Ecosystem Approach and perception approach	Understand	CO 1	CACE533.02
10	Highlight key environmental concerns pertaining to disasters,	Remember	CO 1	CACE533.02
1	Part - C (Problem Solving and Critical Thinking Q Sustainable management of natural resources is essential to provide livelihood	uestions) Understand	CO 1	CACE533.01
	and environmental security'. Discuss.			
2	Write a note on key community-based disaster management strategies.	Remember	CO 1	CACE533.02
3	Discuss the relationship between disaster and development depends on the development choices made by the individual, community and the nation'.	Understand	CO 1	CACE533.01
4	Discuss. Define disaster and refer to major environmental concerns. Discuss recent trends in disaster management with special reference to India.	Remember	CO 1	CACE533.02
5	Examine the types and characteristics of corporate social responsibility with respect to disaster management.	Understand	CO 1	CACE533.02
6	Explain the concept of first responder with special reference to the role of the government in first response.	Remember	CO 1	CACE533.01
7	Discuss the guiding principles of disaster mitigation and elaborate the problem areas in disaster mitigation.	Remember	CO 1	CACE533.02

8 Discuss the relationship between disaster and development with the help of examples from developed and developing countries.	Understand	CO 1	CACE533.02
9 Discuss various methods for rescuing affected persons in a disaster situation.	Remember	CO 1	CACE533.01
10 Examine the changing complexion of disaster management in the contemporary	v Understand	CO 1	CACE533.02
context.	,		
MODULE-II			
TYPES OF ENVIORNMENTAL HAZARDS AN	D DISASTER		
Part – A (Short Answer Questions)			
1 What is a disaster? Classify.	Understand	CO 2	CACE533.0
2 Write a note on social hazard.	Remember	CO 2	CACE533.0
3 Write a short note on effects of cyclones.	Remember	CO 2	CACE533.0
4 Describe civil disorder?	Understand	CO 2	CACE533.0
5 What are the types of man-Induced hazards discuss?	Understand	CO 2	CACE533.0
6 Write down the various types of natural hazards.	Understand	CO 2	CACE533.0
7 Discuss about the planetary and extra-planetary hazard.	Understand	CO 2	CACE533.0
8 Write a note on meteorological hazards.	Remember	CO 2	CACE533.0
9 What is earthquake hazard? What causes earthquake.	Understand	CO 2	CACE533.0
10 What are the harmful effects of earthquakes	Remember	CO 2	CACE533.0
11 Define extra planetary hazard	Remember	CO 2	CACE533.0
12 What causes earthquakes	Remember	CO 2	CACE533.0
13 Write a note on planetary hazard	Remember	CO 2	CACE533.0
14 Write short notes on technological disasters	Remember	CO 2	CACE533.0
15 What are floods?	Understand	CO 2	CACE533.0
16 What are the negative effects of oil drilling?	Remember	CO 2	CACE533.0
17 What is the difference between natural disaster and man-made disaster?	Remember	CO 2	CACE533.0
18 What does the Global Warming mean?	Understand	CO 2	CACE533.0
19 What are the harmful effects of floods	Understand	CO 2	CACE533.0
20 What is a disaster? Classify.	Understand	CO 2	CACE533.0
Part - B (Long Answer Questions)			
1 Write short notes on: a) cold waves	Remember	CO 2	CACE533.0
b) Heat waves	Remember	002	Chielesson
c) Soil Erosion			
2 Write a brief note on floods as a serious environmental hazard.	Understand	CO 2	CACE533.0
3 What are the consequences of the phenomenon of drought? Explain briefly.	Remember	CO 2	CACE533.0
4 Explain sea level rise. What are its causes and effects?	Understand	CO 2	CACE533.0
<ul> <li>5 Write a note on global atmospheric changes.</li> </ul>	Remember	CO 2	CACE533.0
<ul> <li>6 What is the difference between natural disaster and man-made disaster?</li> </ul>	Understand	CO 2	CACE533.0
<ul> <li>7 Draw a flow chart of planetary and extra planetary hazard and explain.</li> </ul>	Understand	CO 2 CO 2	CACE533.0
8 Write a brief note on the extra planetary hazards.	Remember	CO 2 CO 2	CACE533.0
<ul><li>9 What are floods? What are the harmful effects of floods.</li></ul>	Understand	CO 2 CO 2	CACE533.0
What are hoods?     What are the harmful effects of hoods.       10     Write down the methods of controlling floods.	Understand	CO 2 CO 2	CACE533.0
Part - C (Problem Solving and Critical Thinking		002	CACE555.
I         Examine the role of corporate social responsibility as an emerging avenue in	Understand	CO 2	CACE533.0
managing disasters.	Understand	02	CACESSS.
2 Define vulnerability and discuss the vulnerability profile of India,	Remember	CO 2	CACE522.0
	Remember	CO 2 CO 2	CACE533.0
3 Analyse the important facets of disaster management in mountainous regions.	Understand	CO 2 CO 2	CACE533.0
4 Throw light on the development perspective to Disaster management.	Understand		CACE533.0
5 Discuss the role of disaster management outherities in disaster meno-	Understand	$CO^{2}$	CACE533.0
5 Discuss the role of disaster management authorities in disaster management.	Understand	CO 2	CACEFOR
6 Write a brief note on psychological and social dimensions of disaster.	Remember	CO 2	CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural disaster?</li> </ul>	Remember Understand	CO 2 CO 2	CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural</li> </ul>	Remember	CO 2	CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural disaster?</li> <li>8 What will be the consequences of drought when it affects an area very effectively?</li> </ul>	Remember Understand	CO 2 CO 2	CACE533.0 CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural disaster?</li> <li>8 What will be the consequences of drought when it affects an area very effectively?</li> <li>9 Describe terrorism and write down the typology of terrorism?</li> </ul>	Remember         Understand         Understand	CO 2 CO 2 CO 2	CACE533.0 CACE533.0 CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural disaster?</li> <li>8 What will be the consequences of drought when it affects an area very effectively?</li> <li>9 Describe terrorism and write down the typology of terrorism?</li> </ul>	Remember         Understand         Understand         Understand         Understand	CO 2           CO 2           CO 2           CO 2           CO 2	CACE533.0 CACE533.0 CACE533.0
<ul> <li>6 Write a brief note on psychological and social dimensions of disaster.</li> <li>7 Describe manmade (anthropogenic disaster) disaster and list out the natural disaster?</li> <li>8 What will be the consequences of drought when it affects an area very effectively?</li> <li>9 Describe terrorism and write down the typology of terrorism?</li> <li>10 Illustrate the 5 worst man-Made disasters in History.</li> </ul>	Remember         Understand         Understand         Understand         Remember	CO 2           CO 2           CO 2           CO 2           CO 2	CACE533.0 CACE533.0

1	What are the effects of the volcanoes on the environment?	Remember	CO 3	CACE533.09
2	What is seismic activity?	Understand	CO 3	CACE533.09
3	What are Geological hazards?	Understand	CO 3	CACE533.09
4	Define volcanic Ash.	Remember	CO 3	CACE533.08
5	What is Endogenous Hazards?	Remember	CO 3	CACE533.07
6	Define landslides.	Understand	CO 3	CACE533.07
7	Write down the different types of atmospheric hazards.	Remember	CO 3	CACE533.04
8	Define atmospheric hazards.	Understand	CO 3	CACE533.04
9	How earthquake occurs?	Understand	CO 3	CACE533.03
10	What are plate tectonic movements?	Remember	CO 3	CACE533.04
11	What are material comes out from volcanic eruptions?	Remember	CO 3	CACE533.03
12	Define magma.	Understand	CO 3	CACE533.04
13	How to prevent natural disasters?	Remember	CO 3	CACE533.04
14	How human being are adjusted to the disasters?	Understand	CO 3	CACE533.03
15	Define Lava.	Understand	CO 3	CACE533.03
16	Write a note on Bhopal on gas tragedy.	Remember	CO 3	CACE533.04
17	Write a short note on pesticide pollution.	Understand	CO 3	CACE533.06
18	What are the main causes of nuclear hazards?	Remember	CO 3	CACE533.07
19	What is endogenous hazards ?	Understand	CO 3	CACE533.07
20	Write a short note on earthquakes.	Understand	CO 3	CACE533.07
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21	What are cyclones?	Remember	CO 3	CACE533.08
22	Write a note on the formation of cyclones.	Understand	CO 3	CACE533.09
23	Write in short about the structure of cyclone.	Understand	CO 3	CACE533.09
24	Write a short note on effect of cyclones.	Remember	CO 3	CACE533.10
25	Write a short note on the global distribution of cyclones.	Remember	CO 3	CACE533.10
26	Discuss the flood-prone regions in India.	Understand	CO 3	CACE533.10
27	Discuss some of the measures to mitigate cyclones.	Remember	CO 3	CACE533.10
28	What causes lightning and hailstorms?	Understand	CO 3	CACE533.10
29	Define soil erosion.	Understand	CO 3	CACE533.10
30	What are the flood control measures?	Remember	CO 3	CACE533.09
31	What is sedimentation?	Remember	CO 3	CACE533.10
32	Define biological hazards.	Understand	CO 3	CACE533.10
33	Define population explosion as a hazard.	Remember	CO 3	CACE533.09
34	Write the causes of heat waves.	Understand	CO 3	CACE533.09
35			CO 3	CACE533.09
	Define Nuclear Explosion	Understand		CACE533.09 CACE533.11
36	What is epicenter	Remember	CO 3	
37	Define Focus.	Understand	CO 3	CACE533.10
38	What is exogenous hazards ?	Remember	CO 3	CACE533.10
39	Write a note on man-made landslides.	Understand	CO 3	CACE533.11
40	What causes earthquakes?	Understand	CO 3	CACE533.11
	Part – B (Long Answer Questions)		<i>e</i> -	
1	Write a short note on earthquakes. What are its causes?	Understand	CO 3	CACE533.11
2	What are the mitigation measures to be taken at the time of earthquakes?	Understand	CO 3	CACE533.11
3	Write a note on man-made landslides. State what are the mitigation measures at the time of land-slides.	Understand	CO 3	CACE533.12
4	What are the environmental Impacts of Volcanic Eruptions?	Remember	CO 3	CACE533.12
<u>4</u> 5	What are the environmental impacts of voicance Eruptions? What is epicenter and focus ?draw with a neat diagram?	Remember	CO 3	CACE535.12 CACE533.11
5	Based on depth how many types of earthquake are classified.	Kentenibei	005	
6	What is endogenous hazards? Explain with examples in detail.	Understand	CO 3	CACE533.11
7	Illustrate the causes and distribution of volcanoes.	Remember	CO 3	CACE533.11
8	Demonstrate the hazardous effects of volcanic eruptions	Understand	CO 3	CACE533.12
9	What causes earthquakes? What are the harmful effects of earthquakes.	Understand	CO 3	CACE533.12
10	Explain briefly about the effects of earthquakes on the environment.	Remember	CO 3	CACE533.12
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11	Write an account on the genetic disorders caused by radiation pollution.	Understand	CO 3	CACE533.09
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10	Write a short note on nonviotion evaluation and its control	Understand	CO 3	CACE533.08
12 13	Write a short note on population explosion and its control. Write a brief note on volcanoes. What are the hazards involved?	Remember	CO 3	CACE533.08 CACE533.09
13	Illustrate the floods hazards of India in the past years.	Understand	CO 3	CACE533.09
14	Explain briefly the pattern of global population growth in recent years which is	Remember	CO 3	CACE533.08
15	causing alarm to environmental experts.	Kenteniber	005	CACE555.00
16	Write a brief note on floods as a serious environmental hazard.	Understand	CO 3	CACE533.08
17	Discuss in brief the various floods control measures.	Understand	CO 3	CACE533.08
18	Discuss some of the measures to mitigate floods.	Remember	CO 3	CACE533.09
19	What are the consequences of drought? Explain briefly	Understand	CO 3	CACE533.09
20	Write a note on the drought control measures adopted across the globe.	Remember	CO 3	CACE533.07
-	Part – C (Problem Solving and Critical Think			
1	Write a brief note on the distribution of volcanoes in the world.	Understand	CO 3	CACE533.11
2	Comment on the distribution of earthquakes across the globe.	Understand	CO 3	CACE533.11
3	Explain how the magnitude of earthquake is determined.	Remember	CO 3	CACE533.12
4	Identify the earthquake hazards in India and explain	Remember	CO 3	CACE533.12
5	Define vulnerability and discuss the process of vulnerability analysis.	Understand	CO 3	CACE533.10
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6	Write a short note on pesticide pollution.	Understand	CO 3	CACE533.07
7	What are the main causes of nuclear hazards?	Understand	CO 3	CACE533.04
8	Write a brief note on nuclear accidents and the Chernobyl disaster.	Remember	CO 3	CACE533.04
9	Write an account on the genetic disorders caused by radiation pollution.	Remember	CO 3	CACE533.04
10	Write a note on capacity building for Earthquake Vulnerability Reduction.	Understand	CO 3	CACE533.03
	MODULE -IV			
	EMERGING APPROCHES IN DISASTER MANA	GEMENT		
	Part – A (Short Answer Questions)			
1	What are warning systems?	Understand	CO 4	CACE533.11
2	Write short notes on mitigation planning.	Remember	CO 4	CACE533.12
3	Define total management cycle.	Understand	CO 4	CACE533.12
4	What is mitigation?	Remember	CO 4	CACE533.12
5	Write a note on disaster cycle.	Remember	CO 4	CACE533.10
6	What is risk mapping?	Remember	CO 4	CACE533.10
7	What is pre-disaster?	Remember	CO 4	CACE533.14
8	What is post disaster?	Remember	CO 4	CACE533.14
9	What is structural mitigation?	Understand	CO 4	CACE533.14
10	What is non-structural mitigation?	Remember	CO 4	CACE533.14
11	Define first responder in terms of disasters.	Understand	CO 4	CACE533.14
12	Who is the committee for disaster management	Remember	CO 4	CACE533.15
13	What is warning system	Understand	CO 4	CACE533.11
14	Draw disaster cycle	Remember	CO 4	CACE533.10
15	How mitigation helps in prevention of disasters	Understand	CO 4	CACE533.12
16	What is emergency stage?	Understand	CO 4	CACE533.10
17	Mention the stages of Emerging approaches in Disaster Management.	Understand	CO 4	CACE533.11
18	What is the aim of pre-disaster stage?	Understand	CO 4	CACE533.11
19	What is the aim of post-disaster stage?	Understand	CO 4	CACE533.11
20	What is the aim of emergency stage?	Understand	CO 4	CACE533.12
	Part – B (Long Answer Questions)	•		
1	Why should every village have a disaster management committee? Write short	Understand	CO 4	CACE533.12
	notes.			
2	Can you suggest some guidelines for achieving sustainable development.	Remember	CO 4	CACE533.12
3	Write are the provisions of immediate relief measure to disaster affected people?	Understand	CO 4	CACE533.12
4	How do engineered structures help us to withstand like floods, earthquakes, and cyclones?	Remember	CO 4	CACE533.13
5	Describe the structural mitigations and non- structural mitigations that should be restored to in case of floods.	Remember	CO 4	CACE533.13
6	Elaborate on the various organizations which are involved in the research and mitigation of disasters.	Understand	CO 4	CACE533.13
7	How does the community of a village play the most important role in times of disaster as 'first responder'	Understand	CO 4	CACE533.14
8	How can search rescue team assist a village in times of hazards?	Remember	CO 4	CACE533.14
0	now can search rescue team assist a vinage in times of nazarus;	Kemennoer		CACL333.14

9	Enlist the various institutions and national canters involved in natural disaster	Understand	CO 4	CACE533.14
10	reduction.		<u> </u>	GA GE 522 15
10	Elucidate different skills and techniques adopted by a disaster management.	Remember	CO 4	CACE533.15
	Part – C (Problem Solving and Critical Think		<u> </u>	GA GE 500.14
1	Bring to light major initiatives on Disaster Preparedness in India.	Remember	<u>CO 4</u>	CACE533.14
2	Discuss the important steps in relief distribution. Examine the problem areas during recovery phase of disaster management,	Remember	CO 4	CACE533.10
3	Discuss the relationship between disaster and development with the help of examples from developed and developing countries.	Understand	CO 4	CACE533.10
4	Explain the different types of damage reports. Identify the different types of	Remember	CO 4	CACE533.10
	rehabilitation.			
5	Write in brief on the post-disaster stage.	Understand	CO 4	CACE533.13
6	Write a note on disaster management.	Remember	CO 4	CACE533.13
7	Explain the phases of disaster management	Remember	CO 4	CACE533.13
8	Enlist the different stages of disaster management. Write in detail about pre- disaster stage.	Understand	CO 4	CACE533.09
9	Explain natural disasters and its mitigation strategies.	Remember	CO 4	CACE533.08
10	State the guidelines for mitigation of disasters.	Understand	CO 4	CACE533.09
-	MODULE -V			
	DISASTER MANAGEMENT- AN INTEGRATED A	PPROACH		
	Part - A (Short Answer Questions)			
1	Define Disaster Management.	Remember	CO 5	CACE533.10
2	Mention some goals and objectives of ISRDprogramme.	Remember	CO 5	CACE533.14
3	List out some deadliest disasters occurred in past	Understand	CO 5	CACE533.14
4	Describe briefly health hazards due to disasters	Understand	CO 5	CACE533.14
5	What is IED?	Remember	CO 5	CACE533.15
6	List out the uses of IED.	Remember	CO 5	CACE533.15
7	Describe GIS technologies	Understand	CO 5	CACE533.15
8	What is the role of world meteorological organizations?	Remember	CO 5	CACE533.15
9	How can GIS be used in disaster management?	Understand	CO 5	CACE533.15
10	What are the functions of GIS in disaster management?	Remember`	CO 5	CACE533.15
11	What is the role of world federation of engineering organizations (WFED).	Understand	CO 5	CACE533.15
12	List out seismological observatory functions.	Remember	CO 5	CACE533.15
13	Define volcanology.	Understand	CO 5	CACE533.14
14	What are the functions of hydrology in disaster management?	Remember	CO 5	CACE533.14
15	Mention the hydrological disasters.	Understand	CO 5	CACE533.14
16	Define hydrological disaster.	Understand	CO 5	CACE533.14
	Mention the GIS solutions for floods.	Remember	CO 5	CACE533.10
18	Mention the GIS solutions for Earthquake.	Understand	CO 5	CACE533.10
19	What is the work of Engineering council in disaster management?	Remember	CO 5	CACE533.10
20	What is the role of institution of urban & regional planners	Understand	CO 5	CACE533.11
20	Part - B (Long Answer Questions)	Onderstand	05	CACL555.11
1	Briefly examine. Define Disaster Mitigation: and discuss the major mitigation	Remember	CO 5	CACE533.11
	measures	TT. 1 . 1	co 7	
2	Define disaster and refer to major environmental concerns.	Understand	CO 5	CACE533.14
3	Define urbanization. Give the reasons for large scale migration to urban areas and the consequences of rapid urbanization.	Remember	CO 5	CACE533.14
4	Define disaster mitigation and discuss the contribution of United Nations agencies in it.	Understand	CO 5	CACE533.15
5	Discuss the major facets of disaster management in coastal regions	Remember	CO 5	CACE533.15
6	Discuss the important steps in relief distribution, Explain the different types of	Understand	CO 5	CACE533.15
	damages that occur due to disasters.			
7	Define vulnerability and discuss the vulnerability profile of India,	Remember	CO 5	CACE533.14
8	Discuss the guiding principles of disaster mitigation and elaborate the problem	Understand	CO 5	CACE533.14
	areas in disaster mitigation.			
9	Elucidate different skills and techniques adopted by a disaster management.	Remember	CO 5	CACE533.15
10	What are the functions of GIS?	Remember	CO 5	CACE533.14
	Part – C (Problem Solving and Critical Thinl	king)		
1	Bring to light major initiatives on Disaster Preparedness in India.	Remember	CO 5	CACE533.13

2	Discuss the important steps in relief distribution. Examine the problem areas	Understand	CO 5	CACE533.13
	during recovery phase of disaster management,			
3	Explain the application of knowledge based expert systems in disaster mitigation.	Understand	CO 5	CACE533.12
4	Write about state and International level disaster management programmers.	Remember	CO 5	CACE533.10
5	Differentiate disaster risk assessment and hazard assessment	Remember	CO 5	CACE533.12
6	What is GIS and explains its techniques?	Remember	CO 5	CACE533.12
7	Write a brief note on psychological and social dimensions of disaster.	Remember	CO 5	CACE533.13
8	Write an account on the genetic disorders caused by radiation pollution.	Understand	CO 5	CACE533.12
9	Write a short note on population explosion and its control.	Remember	CO 5	CACE533.10
10	Explain briefly the pattern of global population growth in recent years which is	Remember	CO 5	CACE533.12
	causing alarm to environmental experts.			

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