



# INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500 043

## ELECTRICAL AND ELECTRONICS ENGINEERING QUESTION BANK

Course Title	DISASTER MANAGEMENT				
Course Code	ACEC31				
Program	B.Tech				
Semester	VI	EEE			
Course Type	Open Elective				
Regulation	IARE - UG20				
Course Structure	Theory			Practical	
	Lecture	Tutorials	Credits	Laboratory	Credits
	3	-	3	-	-
Course Coordinator	Ms.B Bhavani, Assistant Professor				

### COURSE OBJECTIVES:

The students will try to learn:

I	The concept of environmental hazards, disasters and various approaches dealing with the mitigation of disasters.
II	The knowledge on various types of environmental disasters and their impacts on human beings and nature.
III	The Different types of endogenous and exogenous hazards and their influence on human life and nature.
IV	The immediate response and damage assessment with information reporting and monitoring tools.

### COURSE OUTCOMES:

After successful completion of the course, students should be able to:

CO 1	<b>Classify</b> Environmental hazards for developing modern disaster management system.	Understand
CO 2	<b>Illustrate</b> various approaches for reducing the level of risk associated with Disasters	Understand
CO 2	<b>Compare</b> natural and manmade disasters for finding out intensity of damage loss occurred by them.	Understand

CO 3	List various hazards and their effects for evaluating their impact on society and Environment.	Remember
CO 4	Outline human adjustments and perception towards hazards for mitigation of disasters	Understand
CO 3	Summarize disaster phenomenon and its different contextual aspects for implementing the Disaster Risk Reduction Strategy.	Understand

### QUESTION BANK:

Q.No	QUESTION	Taxonomy	How does this subsume the level	CO's
<b>MODULE I</b>				
<b>EMERGING APPROACHES IN DISASTER MANAGEMENT</b>				
<b>PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS</b>				
1	Explain how Sustainable management of natural resources is essential to provide Livelihood and environmental security.	<b>understand</b>	Learner to <b>recall</b> the concepts of resource management and <b>explain</b> its importance of environment.	CO 2
2	Summarize, how the occurrence of EL NINO events affects global climate?	<b>understand</b>	Learner to <b>recall</b> the concepts of El Nino and explain its effects on environment.	CO 2
3	Explain the concept of first responder with special reference to the role of the government in first response.	<b>understand</b>	Learner to <b>recall</b> the concepts of first responder and <b>understand</b> the government role in first response.	CO 2
4	Explain the principles of disaster mitigation and elaborate the Problem areas in disaster mitigation.	<b>understand</b>	Learner to <b>recall</b> the mitigation principles and <b>explain</b> various problems that occurred during mitigation of disaster.	CO 2
5	Discuss the relationship between disaster and development with the help of examples from developed and developing countries.	<b>understand</b>	Learner to <b>recall</b> the concepts of disaster, development and <b>understand</b> the working mechanism of disaster management in developed countries.	CO 2

6	Explain national guidelines for temporary shelter provision during disasters.	<b>understand</b>	Learner to <b>recall</b> the effects of disasters, and <b>explain</b> the guidelines for shelter provision by the government.	CO 1, CO 2
7	Determine various methods for rescuing affected persons in a disaster situation	<b>understand</b>	Learner to <b>recall</b> various rescue methods and <b>explain</b> how they were helped during emergency situations.	CO 2
8	Discuss the role and functions of a Disaster Manager	<b>understand</b>	Learner to <b>recall</b> working mechanism of disaster management and explain the importance of disaster management.	CO 2
9	<b>recall</b> the significance of planning for ensuring disaster prevention	remember	-	CO 1, CO 2
10	Explain different key environmental concerns pertaining to disasters,	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the Various concerns regarding disasters	CO 1, CO 2
11	Explain Risk Assessment and underline the methodologies for conducting risk assessment.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of risk assessment for disaster management	CO 1, CO 2
<b>PART B-LONG ANSWER QUESTIONS</b>				
1	Define environmental stress and write a note on what bases the stresses are categorised.	Remember	–	CO 1
2	Explain natural disaster and manmade disaster and its effects on environment and society.	<b>understand</b>	Learner to define types of disasters and <b>explain</b> the effects on environment and society.	CO 2
3	Compare different approaches to disaster management with various case studies.	<b>understand</b>	Learner to <b>recall</b> the concepts of various approaches and <b>explain</b> them with different case studies.	CO 2
4	List out various types of environmental disasters and give example for each.	Remember	–	CO 1

5	Compare physical Psychosocial and mechanical hazards	<b>understand</b>	Learner to define the concepts of hazards and explains them by comparing with other hazards.	CO 1
6	List out various types of Approaches which are used in disaster management	Remember	–	CO 1, CO 2
7	Define various types of stressors and explain its effects on humans	<b>understand</b>	Learner to <b>recall</b> the concepts stressors and <b>explain</b> its effects on humans	CO 1, CO 2
8	Explain chemical and biological hazards.	<b>understand</b>	Learner to <b>recall</b> the concepts of hazards and explain various types of hazards.	CO 2
9	Define human ecology and describe how it is related to Disasters	Remember	–	CO 1
10	Summarize Ecosystem Approach and perception approach	<b>understand</b>	Learner to <b>recall</b> the concepts of approaches and <b>explain</b> eco and perception approaches.	CO 2
11	Explain key environmental concerns pertaining to disasters	<b>understand</b>	Learner to <b>recall</b> various environmental issues and <b>explain</b> how they are becoming disasters.	CO 1
12	Define ecology, human ecology and human perception towards disaster mitigation	<b>understand</b>	Learner to <b>recall</b> the concepts of ecology, human ecology and <b>explain</b> human perception for disaster mitigation	CO 2

<b>PART-C SHORT ANSWER QUESTIONS</b>				
1	Define various types of environmental hazards and disasters	Remember	–	CO 1
2	Distinguish between natural disaster and man-made disasters?	<b>understand</b>	Learner to <b>recall</b> the concepts of types of disasters and <b>explain</b> the difference between them.	CO 2
3	State any two impacts of disaster that has on community.	Remember	–	CO 1
4	When will hazards can become a disaster?	Remember	–	CO 1
5	Describe a disaster?	<b>understand</b>	Learner to <b>recall</b> the concepts of disaster phenomenon and <b>explain</b> their impact on society and humans.	CO 2
6	Classify environmental stresses in atmosphere.	<b>understand</b>	Learner to Define the concept of stresses and explain various types of stresses in environment.	CO 2
7	List out various types of Environmental Hazards and their effects on society.	Remember	–	CO 1
8	Explain biological hazards and their effects on humans.	<b>understand</b>	Learner to <b>recall</b> the concepts of biological hazards and explain its effect on humans.	CO 2
9	Define flash flood and explain its impact on environment.	<b>understand</b>	Learner to define the concept of flash flood and explain its impact on humans.	CO 1, CO 2
10	Define chemical and physical hazards.	Remember	-	CO 1
11	Define and give some examples of stressors	Remember	-	CO 1
12	Define physical hazards with an example	Remember	-	CO 1
13	Define various approaches for disaster mitigation	Remember	-	CO 1

MODULE II				
TYPES OF ENVIRONMENTAL HAZARDS AND DISASTERS				
PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Explain cyber terrorism and Summarize forms and impacts	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of cyber terrorism and its effects.	CO 2
2	Explicit a brief note on psychological and social dimensions of disaster	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts slopes and deflections and solve the slopes and deflections for a given beam.	CO 2
4	Illustrate manmade (anthropogenic) disaster and list out various manmade disasters	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of disasters and its types.	CO 2, CO 3,
5	Explore the positive human impact on environment	<b>understand</b>	Learner to <b>recall</b> and explain how positive human will helps in mitigating disasters.	CO 2, CO 3,
6	Explain the negative effects of oil drilling	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the effects of oil drilling on environment.	CO 2, CO 3
7	Illustrate top ten terrifying disasters in history and Specify organization chart for emergency environmental health activities	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> various disasters occurred in history and show mitigation plans for them.	CO 2, CO 3
8	Summarize various categories of natural hazards and their effects	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> various categories of hazards and their effects	CO 2, CO 3
8	Explain biological hazards and their effects on humans.	<b>understand</b>	Learner to <b>recall</b> the concepts of biological hazards and explain its effect on humans.	CO 2
9	Explain the causes of sea level rise and its effect on humans and environment	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of global warming and its effects	CO 2, CO 3

<b>PART B-LONG ANSWER QUESTIONS</b>				
1	Explain a) cold waves b) Heatwaves and c) soilErosion	<b>understand</b>	Learner to <b>recall</b> the concepts of cold, hot waves and soil erosion explain their effects on society.	CO 2, CO 3
2	Relate floods as a serious environmental hazard.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the effects of floods on society and environment	CO 2, CO 3
3	What are the consequences of the of drought and Summarize its effects on society.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the effects of droughts on society	CO 2, CO 3
4	What is sea level rise and explain its causes and effects?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of global warming.	CO 2, CO 3
5	Summarize global atmospheric changes.	<b>understand</b>	Learner to <b>recall</b> and explain the causes of atmospheric changes.	CO 2, CO 3
6	Compare natural disaster and man-made disaster	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of different types of disasters.	CO 2, CO 3
7	Explain planetary and extra planetary hazard with a flow chart.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> different types of hazards.	CO 2, CO 3
8	Illustrate planetary hazards with example	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of planetary hazards.	CO 2, CO 3
9	Summarize causes of floods and explore various harmful effects of floods.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of floods and its causes.	CO 2, CO 3
10	Illustrate the methods of controlling floods.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of flood control methods.	CO 2, CO 3
11	Examine the role of corporate social responsibility as an emerging avenue in managing disasters.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> role of corporate social responsibility as an emerging avenue in managing disasters	CO 2, CO 3
12	Illustrate floods as a serious environmental hazard with an example	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of floods and its effects.	CO 2, CO 3

PART-C SHORT ANSWER QUESTIONS				
1	Define disaster and classify various types of disasters.	Remember	–	CO 2
2	Define social hazard.	Remember	–	CO 2
3	What are the effects of cyclones	Remember	–	CO 2
4	Define different types of man-Induced hazards.	Remember	–	CO 3
5	<b>recall</b> various types of natural hazards.	Remember	–	CO 2
6	Define meteorological hazards.	Remember	–	CO 3
7	Define earthquake hazard? What causes earthquake.	Remember	–	CO 3
8	<b>recall</b> the harmful effects of earthquakes?	Remember	–	CO 3
9	Define extra planetary hazard	Remember	–	CO 3
10	What are the causes for earthquakes	Remember	–	CO 3
11	Define planetary hazard	Remember	–	CO 3
14	What are technological disasters	Remember	–	CO 3
MODULE III				
ENDOGENOUS HAZARDS				
PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Illustrate various types of earthquakes and explain earthquake zonation in India.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of types of earthquakes.	CO 3
2	Summarize briefly about the effects of earthquakes on the environment.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of earthquakes and its effects	CO 3
3	List out the causes and hazardous effects of Volcanic eruptions?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of Volcanic eruptions	CO 4, CO 3,
4	State different types disasters and illustrate an example from a real incident.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of disasters and explain with an example.	CO 3



5	Explain a brief note on volcanoes. What are the hazards involved?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of volcanoes and their effects.	CO 4
6	List different types of disasters and write a short note on each of them.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> different types of disasters.	CO 4, CO 3,
7	Explain various types of earthquakes and its impact on environment and humans	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of earthquakes	CO 4, CO 3,
<b>PART-B LONG ANSWER QUESTIONS</b>				
1	Explain earthquakes and What are its causes?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of earthquakes and its causes.	CO 4, CO 3
2	Illustrate various mitigation measures to be taken at the time of earthquakes?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of earthquake mitigation	CO 4, CO 3
3	Define man-made landslides. What are the mitigation measures we need to take at the time of land-slides.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of landslides and its mitigation measures.	CO 4, CO 3
4	Explain various environmental Impacts of Volcanic Eruptions?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of volcanoes and its effects on environment.	CO 4, CO 3
5	Explain the causes and types of volcanoes	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of volcanoua and its types.	CO 4, CO 3
6	Explain Human Adjustment and perception towards earthquake.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of Human Adjustment and perception towards earthquake	CO 3
7	State epicenter and focus with a neat diagram. Based on depth how many types of earthquake are classified.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of epicenter and focus and explain various types of earthquakes.	CO 3
8	Illustrate endogenous hazards. Give some examples.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of endogenous hazards.	CO 3, CO 4,

9	Explain various mitigation steps taken towards earthquake hazards	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of earthquake hazards and its mitigation.	CO 4, CO 3
10	Summarize seismic zonation of India	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of seismic zonation	CO 4, CO 3
<b>PART-C SHORT ANSWER QUESTIONS</b>				
1	State seismic activity	Remember	–	CO 4
2	What are various geological hazards	Remember	–	CO 4
3	What is volcanic Ash	Remember	–	CO 4
4	Define Endogenous Hazards?	Remember	–	CO 4
5	Define landslides	Remember	–	CO 4
6	List different types of atmospheric hazards.	Remember	–	CO 4
7	Define atmospheric hazard	Remember	–	CO 4
8	How earthquake occurs	Remember	–	CO 4
9	<b>recall</b> plate tectonic movements	Remember	–	CO 4
10	List out various materials comes out from volcanic eruptions?	Remember	–	CO 3
11	Describe magma	Remember	–	CO 3
12	Explore the duties of National Disaster Management Authority of India	Remember	–	CO 3
13	Describe about earthquake risk reduction	Remember	–	CO 3
14	Describe Lava	Remember	–	CO 3
15	Explicit the effects of earthquake on buildings.	Remember	–	CO 3
16	Highlight various mitigation measures to be taken at the time of earthquakes?	Remember	–	CO 3
17	Explicit a note on man-made landslides. State what are the mitigation measures at the time of land-slides.	Remember	–	CO 3

MODULE IV				
EXOGENOUS HAZARDS				
PART- A PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Summarize briefly the pattern of global population growth in recent years which is causing alarm to environmental experts.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the importance of concerns over population growth	CO 5,
2	Explain Bhopal on gas tragedy.	<b>understand</b>	Learner to <b>recall</b> and explain Bhopal gas tragedy.	CO 5
3	Illustrate pesticide pollution with an example.	<b>understand</b>	Learner to <b>recall</b> and explain the effects of pesticide on environment and humans.	CO 5,
4	Explain main causes of nuclear hazards?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the effects of nuclear hazards.	CO 5,
5	Explain nuclear accidents and the Chernobyl disaster.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the causes of nuclear accidents and its effects.	CO 5
6	Explicit briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> various strategies for population stabilization.	CO 5,
7	List out various effects of pesticides on the environment?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of slopes and deflections and solve for the fixed end moments and deflections.	CO 4
8	Summarize disaster mitigation and discuss the contribution of United Nations agencies in it.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of disaster mitigation and <b>explain</b> how United Nations agencies were helping .	CO 6
9	List and explain the major facets of disaster management in coastal regions	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of coastal disaster management	CO 5

10	Illustrate the important steps in relief distribution and summarize the different types of damages that occur due to disasters.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the important steps in relief distribution and explain effects of disasters.	CO 5, CO 6
11	State vulnerability and discuss the vulnerability profile of India.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of vulnerability and explain vulnerability of India.	CO 5, CO 6
<b>PART B-LONG ANSWER QUESTIONS</b>				
1	Explain floods as a serious environmental hazard.	<b>understand</b>	Learner to <b>recall</b> and explain the effects of floods on environment	CO 3
2	Explain various flood control measures taken in India	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the various flood measures taken to mitigate the disaster.	CO 4
3	Summarize the consequences of drought.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> the effects of drought on humans and environment.	CO 3
4	Explain effects of droughts and write a note on the drought control measures adopted across the globe.	<b>understand</b>	Learner to <b>recall, understand</b> the effects of droughts and <b>explain</b> various drought control measures adopted across the globe.	CO 4
5	Explain the genetic disorders caused by radiation pollution.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the genetic disorders caused by radiation pollution.	CO 4, CO 3
6	Illustrate population explosion and its control with an example.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> effects of population explosion and its measures.	CO 4
7	Explicit briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization.	<b>understand</b>	Learner to <b>recall</b> and explain the steps for achieving population stabilization.	CO 4, CO 3

8	Illustrate the pattern of global population growth in recent years which is causing alarm to environmental experts.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concerns over population growth.	CO 4, CO 3
9	List out some ways and methods to destroy cyclones and explain them.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts cyclone and explain various methods to destroy them.	CO 3, CO 4,
10	Compare various types of floods and discuss its effects and causes.	<b>understand</b>	Learner to <b>recall, understand</b> the concepts of floods, its effects and causes.	CO 4, CO 3
11	Explain the flood-prone regions in India.	<b>understand</b>	Learner to <b>recall</b> and explain the causes of floods and its regions in India	CO 4, CO 3
12	What are the causes of cold waves and explain its effects?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concept of cold waves and its effects on environment.	CO 3,
13	Illustrate the floods hazards of India in the past years.	<b>understand</b>	Learner to <b>recall</b> and explain the flood hazards with an example.	CO 3
<b>PART- C SHORT ANSWER QUESTIONS</b>				
1	Find different categories of cyclones and explore them.	Remember	–	CO 3
2	Tell how cyclones are formed	Remember	–	CO 3
3	Tell the structure of cyclone.	Remember	–	CO 3
4	List flood-prone regions in India.	Remember	–	CO 3
5	Define soil erosion	Remember	–	CO 3
6	List various flood control measures	Remember	–	CO 3
7	Define sedimentation	Remember	–	CO 4
8	Define biological hazards	Remember	–	CO 4
9	Define population explosion as a hazard	Remember	–	CO 4
10	What are the causes of heat waves	Remember	–	CO 4
11	Define Nuclear Explosion	Remember	–	CO 4

MODULE V				
EMERGING APPROACHES IN DISASTER MANAGEMENT				
PART- APROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Explain briefly the use of village disaster management committee.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the uses of village disaster management committee.	CO 4, CO 5
2	List some guidelines for achieving sustainable development.	Remember	-	-
3	Illustrate various provisions taken for immediate relief measure to disaster affected people?	<b>understand</b>	Learner to <b>recall</b> and explain the various provisions taken for immediate relief to disaster effected people.	CO 3, CO 5
4	Explain how do engineered structures help us to withstand like floods, earthquakes, and cyclones?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the importance of structures in reducing loss of life during disaster period.	CO 3, CO 5
5	Compare structural mitigations and non-structural mitigations that should be restored to in case of floods.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of structural and non-structural mitigations.	CO 4, CO 5
6	Classify various organizations which are involved in the research and mitigation of disasters.	<b>understand</b>	Learner to <b>recall</b> and <b>classify</b> various organizations involved in the research and mitigation of disasters.	CO 4, CO 5
7	Explain how the community of a village play the most important role in time of disaster as ‘first responder’	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the importance of first responder in disaster mitigation plan.	CO 4, CO 5
8	Illustrate how a search rescue team assist a village in times of a hazards?	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the working mechanism of rescue team and how they are helping village people.	CO 5
9	List various institutions and national centers involved in natural disaster reduction.	<b>understand</b>	Learner to <b>recall</b> and explain various institutions and national centers involved in natural disaster reduction.	CO 5

10	Show different skills and techniques adopted by a disaster management.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> various skills and techniques adopted by disaster management.	CO 5
11	Compare various major initiatives taken on Disaster Preparedness in India.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> major initiatives taken on Disaster Preparedness in India.	CO 5
<b>PART B-LONG ANSWER QUESTIONS</b>				
1	Explain a brief note on the emergency stage of a disaster.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concepts of emergency stage of a disaster.	CO 5
2	How natural disasters affect the life of humans and environment.	Remember	-	CO 5
3	Illustrate the role of technology in disaster management.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> the importance of technology in disaster management with example.	CO 6
4	Show various methods to predict natural disasters.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> various methods which were used to predict natural disasters.	CO 5
5	Compare various types of cyclones and explain how can people be warned of it beforehand?	<b>understand</b>	Learner to <b>recall</b> , compare different types of cyclones and <b>understand</b> how people be warned of it beforehand.	CO 5
6	Illustrate the various measures that should be taken for disaster management and prevention	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the various measures that were taken for disaster management and prevention	CO 5
7	Summarize post-disaster stage.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> the concept of post disaster stage.	CO 5
8	Explain disaster management.	<b>understand</b>	Learner to <b>recall</b> and explain the concepts of disaster management.	CO 1, CO 5

9	Summarize the phases of disaster management	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> various phases involved in disaster management.	CO 5
10	Compare different stages of disaster management. Explain in detail about pre-disaster stage.	<b>understand</b>	Learner to <b>recall</b> and <b>compare</b> various stages involved in disaster management and explain pre-disaster stage.	CO 5
11	Illustrate an example from a real incident when warning against a cyclone helped the people.	<b>understand</b>	Learner to <b>recall</b> and <b>illustrate</b> an example of early warning system of cyclone.	CO 5
12	Summarize natural disasters and its mitigation strategies.	<b>understand</b>	Learner to <b>recall</b> and <b>understand</b> natural disasters and its mitigation strategies	CO 5
13	State the guidelines for mitigation of disasters.	Remember	-	CO 5
14	Explain the importance of first responders in disaster management.	<b>understand</b>	Learner to <b>recall</b> and <b>explain</b> the importance of first responders in disaster management.	CO 4
<b>PART- C SHORT ANSWER QUESTIONS</b>				
1	Define warning systems	Remember	–	CO 6
2	<b>recall</b> a short notes on mitigation planning.	Remember	–	CO 6
3	Show total management cycle	Remember	–	CO 6
4	What is nonstructural mitigation	Remember	–	CO 6
5	Define disaster cycle	Remember	–	CO 6
6	What is risk mapping	Remember	–	CO 6
7	Define pre disaster	Remember	–	CO 6
8	What is structural mitigation	Remember	–	CO 6
9	State mitigation?	Remember	–	CO 6
10	Define first responder in terms of disasters.	Remember	–	CO 6
11	Define post disaster	Remember	–	CO 6



12	What is disaster cycle	Remember	–	CO 6
13	<b>recall</b> how mitigation helps in prevention of disasters	Remember	–	CO 6

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**HOD CE**