



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad-500043

ELECTRICAL AND ELECTRONICS ENGINEERING

TUTORIAL QUESTION BANK

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|--------------------------|--|------------------|----------------|-------------------|----------------|
| Course Title | DISASTER MANAGEMENT | | | | |
| Course Code | ACE551 | | | | |
| Programme | B.Tech | | | | |
| Semester | VI | CSE | IT | ECE | EEE ME |
| Course Type | Open Elective - I | | | | |
| Regulation | IARE - R16 | | | | |
| Course Structure | Theory | | | Practical | |
| | Lectures | Tutorials | Credits | Laboratory | Credits |
| | 3 | - | 3 | - | - |
| Chief Coordinator | Mr. Gude Ramakrishna, Associate Professor. | | | | |
| Course Faculty | Mr. Gude Ramakrishna, Associate Professor, CE Mr. S SivaRamkrishna, Assistant Professor, CE Mr. S Selva Prakash, Assistant Professor, CE Mr. G N V Sai Teja, Assistant Professor, CE Ms. N Sri Ramya, Assistant Professor, CE Mr. J Tirupathi, Assistant Professor, CSE | | | | |

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COURSE OBJECTIVES:

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| The course should enable the students to: | |
| I | Identify the major disaster types and develop an understanding of modern disaster management. |
| II | Recognize and develop awareness of the chronological phases of natural disaster response and refugee relief operations. |
| III | Understand the key concepts of disaster management related to development and the relationship of different disaster management activities. |
| IV | Categorize the organizations that are involved in natural disaster assistance and relief system. |

COURSE OUTCOMES (COs):

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|------|--|
| CO 1 | Environmental hazards and disasters: meaning of environmental hazards, environmental disasters and environmental stress; concept of environmental hazards, |
| CO 2 | Types of environmental hazards and disasters: Natural hazards and disasters, |
| CO 3 | Endogenous hazards, volcanic eruption, earthquakes, landslides, volcanic hazards/ disasters, causes and distribution of volcanoes, Earthquake hazards, hazardous effects of, earthquakes, earthquake hazards in India, human adjustment, perception and mitigation of earthquake. |
| CO 4 | Exogenous hazards/ disasters, infrequent events, cumulative atmospheric hazards/ disasters; Infrequent events: Cyclones , lightning , hailstorms; Cyclones: Tropical cyclones and local storms, destruction by tropical cyclones and local storms (causes, distribution human adjustment, perception and mitigation); Cumulative atmospheric hazards/ disasters: Floods, droughts, cold waves, heat waves floods; Causes of floods, flood hazards India. |
| CO 5 | Emerging approaches in disaster management i.e pre, disaster stage (preparedness), emergency stage and post disaster stage, rehabilitation. |

COURSE LEARNING OUTCOMES (CLOs):

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| ACE551.01 | Identify the properties of engineering materials like cement, sand, concrete, ceramics, bitumen, structural steel etc. |
| ACE551.02 | Summarize the classification of engineering materials and uses of materials. |
| ACE551.03 | Understand the manufacturing process of cement, concrete, bitumen, glass, plastics, metals, paints and other engineering materials. |
| ACE551.04 | Classify the steel, glass, varnishes, adhesives, carbon composites. |
| ACE551.05 | Summarize the mechanical behavior and characteristics of different metals. |
| ACE551.06 | Understand the importance of elasticity principle, characteristics and plastic deformation of metals. |
| ACE551.07 | Summarize standards for different materials, stress-strain interpretation. |
| ACE551.08 | Explicit the fundamentals of internal friction, creep, brittle fracture of steel. |
| ACE551.09 | Understand the concept of fatigue of materials, structural integrity assessment procedure. |
| ACE551.10 | Perform the mechanical testing of various metals like iron, steel and non-ferrous metals. |
| ACE551.11 | Summarize elastic deformation and plastic deformation of metals. |
| ACE551.12 | Understand the impact testing, fatigue and creep of materials. |
| ACE551.13 | Summarize fracture toughness of different materials like steel and non-ferrous metals. |
| ACE551.14 | Summarize the testing procedures of bricks and sand. |
| ACE551.15 | Explicit the testing procedures of fresh and hardened concrete. |
| ACE551.16 | Understand the properties of soil by conducting the different tests. |
| ACE551.17 | Explicate the procedures of testing bitumen and bitumen mixes. |

TUTORIAL QUESTION BANK

| S No | QUESTIONS | Blooms Taxonomy Level | Course Outcomes | Course Learning Outcomes (CLOs) |
|---|---|--------------------------|--------------------|--|
| UNIT - I | | | | |
| ENVIRONMENTAL HAZARDS AND DISASTERS | | | | |
| Part - A (Short Answer Questions) | | | | |
| 1 | Explicit a note on environmental hazards. | Remember | CO 1 | ACE551.01 |
| 2 | Distinguish between natural disaster and man-made disasters? | Understand | CO 1 | ACE551.01 |
| 3 | Explicit two impact of disaster has on community. | Remember | CO 1 | ACE551.01 |
| 4 | Explicit briefly about how hazards can become a disaster. | Remember | CO 1 | ACE551.01 |
| 5 | Describe a disaster? | Understand | CO 1 | ACE551.01 |
| 6 | Explicit the environmental stress in the atmosphere. | Understand | CO 1 | ACE551.01 |
| 7 | Explicit the concept of Environmental Hazards. | Remember | CO 1 | ACE551.01 |
| 8 | Describe biological hazards. | Understand | CO 1 | ACE551.01 |
| 9 | Describe flash flood | Remember | CO 1 | ACE551.01 |
| 10 | Discuss about chemical and physical hazards. | Remember | CO 1 | ACE551.01 |
| 11 | Give some examples of stressors | Remember | CO 1 | ACE551.01 |
| 12 | Describe hazard | Remember | CO 1 | ACE551.02 |
| 13 | Discuss the environmental stress in the atmosphere. | Understand | CO 1 | ACE551.02 |
| 14 | Summarize the concept of disaster. | Understand | CO 1 | ACE551.02 |
| 15 | Explore physical hazards with an example | Remember | CO 1 | ACE551.02 |
| Part - B (Long Answer Questions) | | | | |
| 1 | Describe environmental stress. Explicit a note on the stressors of environment. | Remember | CO 1 | ACE551.02 |
| 2 | Demonstrate natural disaster and man made disaster, what are the effects of disasters on environmental health facilities and services | Remember | CO 1 | ACE551.02 |
| 3 | Explicit an account on different approaches to disaster management and relation with human ecology. | Understand | CO 1 | ACE551.02 |
| 4 | List out the environmental disaster and give example for each | Remember | CO 1 | ACE551.02 |
| 5 | Enumerate the physical ,Psychosocial and mechanical hazards. | Understand | CO 1 | ACE551.02 |
| 6 | Explicit a note on chemical and biological hazards. | Remember | CO 1 | ACE551.02 |
| 7 | Explicit an account on geomorphic (geological) hazards. | Remember | CO 1 | ACE551.02 |
| 8 | Elucidate human ecology and describe how it is related to Disasters. | Understand | CO 1 | ACE551.02 |
| 9 | Explicit down the types of environmental hazards and Disasters? | Understand | CO 1 | ACE551.03 |
| 10 | Describe human Ecology? What are the field of applications in geographical Researchers. | Remember | CO 1 | ACE551.03 |
| 11 | Explicit the air pollution and water pollution in environmental disaster | Understand | CO 1 | ACE551.03 |
| 12 | Express about Ecosystem Approach and perception approach | Understand | CO 1 | ACE551.03 |
| 13 | Explore different key environmental concerns pertaining to disasters, | Remember | CO 1 | ACE551.03 |
| 14 | Evaluate how Sustainable management of natural resources is essential to provide Livelihood and environmental security'.. | Understand | CO 1 | ACE551.03 |
| Part - C (Problem Solving and Critical Thinking Questions) | | | | |
| 1 | Demonstrate the steps involved in risk communication | Understand | CO 1 | ACE551.03 |
| 2 | Summarize, how the occurrence of EL NINO events affects global climate? | Understand | CO 1 | ACE551.03 |
| 3 | Explicit natural disaster and list out the natural disaster | Understand | CO 1 | ACE551.03 |
| 4 | Summarize the concept of first responder with special reference to the role of the government in first response. | Remember | CO 1 | ACE551.03 |
| 5 | Discuss the guiding principles of disaster mitigation and elaborate the problem areas in disaster mitigation. | Remember | CO 1 | ACE551.03 |
| 6 | Discuss the relationship between disaster and development with the help of examples from developed and developing countries. | Understand | CO 1 | ACE551.04 |
| 7 | Explicit the various management guidelines for temporary shelter provision during disasters. | Remember | CO 1 | ACE551.04 |
| 8 | Discuss various methods for rescuing affected persons in a disaster situation. | Understand | CO 1 | ACE551.04 |
| 9 | Discuss the role and functions of a Disaster Manager, health effects of global environmental change | Remember | CO 1 | ACE551.04 |

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|----|--|------------|------|-----------|
| 10 | Discuss Community-Based Disaster Risk Reduction Process. | Remember | CO 1 | ACE551.04 |
| 11 | Describe Risk Assessment and underline the methodologies for conducting risk assessment. | Understand | CO 1 | ACE551.04 |
| 12 | Discuss the role of disaster management authorities in disaster management. | Remember | CO 1 | ACE551.04 |
| 13 | Discuss the role and functions of a Disaster Manager | Understand | CO 1 | ACE551.04 |
| 14 | Examine the changing complexion of disaster management in the contemporary context. | Understand | CO 1 | ACE551.04 |
| 15 | Highlight the significance of planning for ensuring disaster prevention | Remember | CO 1 | ACE551.04 |

UNIT - II

TYPES OF ENVIRONMENTAL HAZARDS AND DISASTERS

Part – A (Short Answer Questions)

| | | | | |
|----|--|------------|------|-----------|
| 1 | Describe a disaster and classify various types of disasters. | Understand | CO 2 | ACE551.05 |
| 2 | Explicit a note on social hazard. | Remember | CO 2 | ACE551.05 |
| 3 | Explicit a short note on effects of cyclones | Remember | CO 2 | ACE551.05 |
| 4 | Explicit civil disorder | Understand | CO 2 | ACE551.05 |
| 5 | Elucidate the types of man-Induced hazards discuss? | Understand | CO 2 | ACE551.05 |
| 6 | Explicit down the various types of natural hazards | Understand | CO 2 | ACE551.05 |
| 7 | Enumerate about planetary and extra-planetary hazard. | Understand | CO 2 | ACE551.05 |
| 8 | Explicit a note on meteorological hazards. | Remember | CO 2 | ACE551.05 |
| 9 | Elucidate earthquake hazard? What causes earthquake. | Understand | CO 2 | ACE551.05 |
| 10 | Explore various harmful effects of earthquakes | Remember | CO 2 | ACE551.05 |
| 11 | Describe extra planetary hazard | Remember | CO 2 | ACE551.05 |
| 12 | Express the causes for earthquakes | Remember | CO 2 | ACE551.05 |
| 13 | Explicit a note on planetary hazard | Remember | CO 2 | ACE551.05 |
| 14 | Explicit short notes on technological disasters | Remember | CO 2 | ACE551.05 |

Part - B (Long Answer Questions)

| | | | | |
|----|--|------------|------|-----------|
| 1 | Describe short notes on: a) cold waves b) Heatwaves c) SoilErosion | Remember | CO 2 | ACE551.05 |
| 2 | Explicit a brief note on floods as a serious environmental hazard. | Understand | CO 2 | ACE551.05 |
| 3 | Elucidate the consequences of the phenomenon of drought? Summarize briefly. | Remember | CO 2 | ACE551.05 |
| 4 | Summarize sea level rise. What are its causes and effects? | Understand | CO 2 | ACE551.06 |
| 5 | Explicit a note on global atmospheric changes. | Remember | CO 2 | ACE551.06 |
| 6 | Distinguish between natural disaster and man-made disaster? | Understand | CO 2 | ACE551.06 |
| 7 | Describe a flow chart of planetary and extra planetary hazard. | Understand | CO 2 | ACE551.06 |
| 8 | Explicit a brief note on the extra planetary hazards. | Remember | CO 2 | ACE551.06 |
| 9 | Elucidate the floods and explore various harmful effects of floods. | Understand | CO 2 | ACE551.06 |
| 10 | Explicit down the methods of controlling floods. | Understand | CO 2 | ACE551.06 |
| 11 | Examine the role of corporate social responsibility as an emerging avenue in managing disasters. | Understand | CO 2 | ACE551.06 |
| 14 | Explicit a brief note on floods as a serious environmental hazard. | Remember | CO 2 | ACE551.06 |
| 15 | Express various consequences of drought and summarize briefly. | Understand | CO 2 | ACE551.06 |
| 16 | Describe the consequences of drought when it affects an area. | Understand | CO 2 | ACE551.06 |

Part – C (Problem Solving and Critical Thinking)

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|---|--|------------|------|-----------|
| 1 | Describe cyber terrorism and Summarize forms and impacts | Understand | CO 2 | ACE551.06 |
| 2 | Explicit a brief note on psychological and social dimensions of disaster | Remember | CO 2 | ACE551.07 |
| 3 | Distinguish the difference between natural disaster and man-made disaster? | Remember | CO 2 | ACE551.07 |
| 4 | Explicit manmade (anthropogenic) disaster and list out the natural disaster | Understand | CO 2 | ACE551.07 |
| 5 | Explicit terrorism and Explicit down the typology of terrorism | Remember | CO 2 | ACE551.07 |
| 6 | Explore the positive human impact on environment | Remember | CO 2 | ACE551.07 |
| 7 | Explore the negative effects of oil drilling | Understand | CO 2 | ACE551.07 |
| 8 | Enlist top ten terrifying disasters in history and Specimen organization chart for emergency environmental health activities | Remember | CO 2 | ACE551.07 |

MODULE -III

ENDOGENOUS HAZARDS

Part - A (Short Answer Questions)

| | | | | |
|---|---|----------|------|-----------|
| 1 | Illustrate the effects of the volcanoes on the environment? | Remember | CO 3 | ACE551.08 |
|---|---|----------|------|-----------|

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|---|--|------------|------|-----------|
| 2 | State seismic activity | Understand | CO 3 | ACE551.08 |
| 3 | Describe various geological hazards | Understand | CO 3 | ACE551.08 |
| 4 | Describe volcanic Ash | Remember | CO 3 | ACE551.08 |
| 5 | Explicit Endogenous Hazards? | Remember | CO 3 | ACE551.08 |
| 6 | Describe landslides | Understand | CO 3 | ACE551.08 |
| 7 | Explicit different types of atmospheric hazards. | Remember | CO 3 | ACE551.08 |
| 8 | Describe atmospheric hazards | Understand | CO 3 | ACE551.08 |
| 9 | How earthquake occurs | Understand | CO 3 | ACE551.08 |
| 10 | Explore plate tectonic movements? | Remember | CO 3 | ACE551.08 |
| | | | | |
| 11 | List out various materials comes out from volcanic eruptions? | Remember | CO 3 | ACE551.08 |
| 12 | Describe magma | Understand | CO 3 | ACE551.08 |
| 13 | Explore how to prevent natural disasters | Remember | CO 3 | ACE551.08 |
| 14 | Describe how human beings were adjusted to disasters. | Understand | CO 3 | ACE551.08 |
| 15 | Describe Lava | Understand | CO 3 | ACE551.08 |
| 16 | Explicit a short note on earthquakes. What are its causes? | Understand | CO 3 | ACE551.08 |
| 17 | Highlight various mitigation measures to be taken at the time of earthquakes? | Understand | CO 3 | ACE551.08 |
| 18 | Explicit a note on man-made landslides. State what are the mitigation measures at the time of land-slides. | Remember | CO 3 | ACE551.08 |
| Part – B (Long Answer Questions) | | | | |
| 1 | Explicit a short note on earthquakes. What are its causes? | Understand | CO 3 | ACE551.09 |
| 2 | Illustrate various mitigation measures to be taken at the time of earthquakes? | Understand | CO 3 | ACE551.09 |
| 3 | Explicit a note on man-made landslides. State what are the mitigation measures at the time of land-slides. | Understand | CO 3 | ACE551.09 |
| 4 | Explore various environmental Impacts of Volcanic Eruptions? | Remember | CO 3 | ACE551.09 |
| 5 | State epicenter and focus? Create with a neat diagram? Based on depth how many types of earthquake are classified. | Remember | CO 3 | ACE551.09 |
| 6 | List out various properties and uses of wrought iron? | Remember | CO 3 | ACE551.09 |
| 7 | List out different types of steels with their composition and explicit their properties. | Remember | CO 3 | ACE551.09 |
| 8 | What do you mean by non-ferrous metal? Summarize manufacturing process of aluminium. | Understand | CO 3 | ACE551.09 |
| 9 | What are the important properties of aluminum? Discuss in detail the uses of aluminium. | Understand | CO 3 | ACE551.09 |
| | | | | |
| 11 | Describe endogenous hazards ?Summarize with examples in detail. | Understand | CO 3 | ACE551.10 |
| 12 | Illustrate the causes and distribution of volcanoes. | Remember | CO 3 | ACE551.10 |
| Part – C (Problem Solving and Critical Thinking) | | | | |
| 1 | Describe various causes of earthquakes and explore harmful effects of earthquakes. | Understand | CO 3 | ACE551.10 |
| 2 | Summarize briefly about the effects of earthquakes on the environment. | Remember | CO 3 | ACE551.10 |
| 3 | List out the causes and hazardous effects of Volcanic eruptions? | Understand | CO 3 | ACE551.10 |
| | | | | |
| 4 | State different types disasters and give an example from a real incident. | Understand | CO 3 | ACE551.10 |
| 5 | Explicit a brief note on volcanoes. What are the hazards involved? | Remember | CO 3 | ACE551.10 |
| 6 | List out different types of disasters and write a short note. | Understand | CO 3 | ACE551.10 |
| MODULE -IV | | | | |
| EXOGENOUS HAZARDS AND DISASTERS | | | | |
| Part – A (Short Answer Questions) | | | | |
| 1 | Describe different categories of cyclones and explore them. | Understand | CO 4 | ACE551.11 |
| 2 | Explicit a note on the formation of cyclones. | Remember | CO 4 | ACE551.11 |
| 3 | Explicit in short about the structure of cyclone. | Understand | CO 4 | ACE551.11 |
| 4 | Describe a short note on effect of cyclones. | Remember | CO 4 | ACE551.11 |
| 5 | Explicit a short note on the global distribution of cyclones. | Remember | CO 4 | ACE551.11 |
| 6 | Discuss the flood-prone regions in India. | Remember | CO 4 | ACE551.11 |
| 7 | Discuss some of the measures to mitigate cyclones. | Remember | CO 4 | ACE551.11 |
| 8 | Illustrate various causes of lightning and hailstorms? | Remember | CO 4 | ACE551.11 |
| 9 | Describe soil erosion | Understand | CO 4 | ACE551.12 |
| 10 | Describe various flood control measures | Remember | CO 4 | ACE551.12 |

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|----|---|------------|------|-----------|
| 11 | Explicit about sedimentation | Understand | CO 4 | ACE551.12 |
| 12 | Describe biological hazards | Remember | CO 4 | ACE551.12 |
| 13 | Describe population explosion as a hazard | Understand | CO 4 | ACE551.12 |
| 14 | Explicit the causes of heat waves | Remember | CO 4 | ACE551.12 |
| 15 | Describe Nuclear Explosion | Understand | CO 4 | ACE551.12 |

Part – B (Long Answer Questions)

| | | | | |
|----|--|------------|------|-----------|
| 1 | Explicit a brief note on floods as a serious environmental hazard. | Understand | CO 4 | ACE551.12 |
| 2 | Discuss in brief the various floods control measures. | Remember | CO 4 | ACE551.13 |
| 3 | Discuss some of the measures to mitigate floods. | Understand | CO 4 | ACE551.13 |
| 4 | Summarize briefly about consequences of drought. | Remember | CO 4 | ACE551.13 |
| 5 | Explicit a note on the drought control measures adopted across the globe. | Remember | CO 4 | ACE551.13 |
| 6 | Explicit an account on the genetic disorders caused by radiation pollution. | Understand | CO 4 | ACE551.13 |
| 7 | Describe a short note on population explosion and its control. | Remember | CO 4 | ACE551.13 |
| 8 | Explicit briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization. | Remember | CO 4 | ACE551.13 |
| 9 | Summarize briefly the pattern of global population growth in recent years which is causing alarm to environmental experts. | Understand | CO 4 | ACE551.13 |
| 10 | Describe urbanization. Give the reasons for large scale migration to urban areas and the consequences of rapid urbanization. | Remember | CO 4 | ACE551.13 |
| 11 | List out some ways and methods to destroy cyclones and explain them. | Remember | CO 4 | ACE551.14 |
| 12 | Explicit a note on floods and discuss its types and causes. | Remember | CO 4 | ACE551.14 |
| 13 | Discuss the flood-prone regions in India. | Understand | CO 4 | ACE551.14 |
| 14 | Explore the causes of cold waves what are its effects? | Remember | CO 4 | ACE551.14 |
| 15 | Illustrate the floods hazards of India in the past years | Understand | CO 4 | ACE551.14 |

Part – C (Problem Solving and Critical Thinking)

| | | | | |
|----|--|------------|------|-----------|
| 1 | Summarize briefly the pattern of global population growth in recent years which is causing alarm to environmental experts. | Understand | CO 4 | ACE551.14 |
| 2 | Explicit a note on Bhopal on gas tragedy. | Remember | CO 4 | ACE551.14 |
| 3 | Explicit a short note on pesticide pollution. | Understand | CO 4 | ACE551.14 |
| 4 | Describe the main causes of nuclear hazards? | Remember | CO 4 | ACE551.14 |
| 5 | Explicit a brief note on nuclear accidents and the Chernobyl disaster. | Remember | CO 4 | ACE551.15 |
| 6 | Describe an account on the genetic disorders caused by radiation pollution. | Understand | CO 4 | ACE551.15 |
| 7 | Explicit a short note on population explosion and its control. | Remember | CO 4 | ACE551.15 |
| 8 | Explicit briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization. | Remember | CO 4 | ACE551.15 |
| 9 | List out various effects of pesticides on the environment? | Understand | CO 4 | ACE551.15 |
| 10 | Describe urbanization. Give the reasons for large scale migration to urban areas and the consequences of rapid urbanization. | Remember | CO 4 | ACE551.15 |
| 11 | Describe disaster mitigation and discuss the contribution of United Nations agencies in it. | Remember | CO 4 | ACE551.15 |
| 12 | List out and explain the major facets of disaster management in coastal regions | Understand | CO 4 | ACE551.15 |
| 13 | Illustrate the important steps in relief distribution and summarize the different types of damages that occur due to disasters. | Remember | CO 4 | ACE551.15 |
| 14 | State vulnerability and discuss the vulnerability profile of India, | Understand | CO 4 | ACE551.15 |

MODULE - V

TESTING PROCEDURES OF SPECIAL MATERIALS

Part - A (Short Answer Questions)

| | | | | |
|----|---|------------|------|-----------|
| 1 | Describe warning systems | Remember | CO 5 | ACE551.16 |
| 2 | Explicit short notes on mitigation planning. | Remember | CO 5 | ACE551.16 |
| 3 | Describe total management cycle | Understand | CO 5 | ACE551.16 |
| 4 | Describe non structural mitigation | Remember | CO 5 | ACE551.16 |
| 5 | Explicit a note on disaster cycle | Remember | CO 5 | ACE551.16 |
| 6 | State risk mapping | Remember | CO 5 | ACE551.16 |
| 7 | Describe pre disaster | Understand | CO 5 | ACE551.16 |
| 8 | Explore the committee for disaster management | Remember | CO 5 | ACE551.16 |
| 9 | Describe structural mitigation | Understand | CO 5 | ACE551.16 |
| 10 | State mitigation? | Understand | CO 5 | ACE551.16 |
| 11 | Describe first responder in terms of disasters. | Understand | CO 5 | ACE551.16 |
| 12 | Describe post disaster | Remember | CO 5 | ACE551.16 |

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|---|---|------------|------|-----------|
| 13 | Describe disaster cycle | Remember | CO 5 | ACE551.16 |
| 14 | Elucidate how mitigation helps in prevention of disasters | Understand | CO 5 | ACE551.16 |
| Part - B (Long Answer Questions) | | | | |
| 1 | Explicit a brief note on the emergency stage of a disaster. | Remember | CO 5 | ACE551.16 |
| 2 | Explicit an account on the impact of disasters to life and environment. | Understand | CO 5 | ACE551.16 |
| 3 | Discuss the role of technology in disaster management. | Remember | CO 5 | ACE551.16 |
| 4 | Explicit the methods to predict natural disasters. | Understand | CO 5 | ACE551.16 |
| 5 | Describe cyclone? How can people be warned of it beforehand? | Remember | CO 5 | ACE551.16 |
| 6 | Illustrate the various measures that should be taken for disaster management and prevention | Remember | CO 5 | ACE551.16 |
| 7 | Explicit in brief on the post-disaster stage. | Understand | CO 5 | ACE551.16 |
| 8 | Explicit a note on disaster management. | Remember | CO 5 | ACE551.16 |
| 9 | Summarize the phases of disaster management | Remember | CO 5 | ACE551.16 |
| 10 | Enlist the different stages of disaster management. Explicit in detail about pre-disaster stage. | Understand | CO 5 | ACE551.16 |
| 11 | Illustrate an example from a real incident when warning against a cyclone helped the people. | Remember | CO 5 | ACE551.17 |
| 12 | Summarize natural disasters and its mitigation strategies. | Understand | CO 5 | ACE551.17 |
| 13 | State the guidelines for mitigation of disasters. | Remember | CO 5 | ACE551.17 |
| 14 | Summarize in detail the mitigation planning. | Remember | CO 5 | ACE551.17 |
| 15 | Describe the importance of people as the first responders in disaster management. | Understand | CO 5 | ACE551.17 |
| Part – C (Problem Solving and Critical Thinking) | | | | |
| 1 | Describe briefly the use of village disaster management committee. | Understand | CO 5 | ACE551.17 |
| 3 | List out some guidelines for achieving sustainable development. | Remember | CO 5 | ACE551.17 |
| 4 | Describe various provisions taken for immediate relief measure to disaster affected people? | Remember | CO 5 | ACE551.17 |
| 5 | Describe how do engineered structures help us to withstand like floods, earthquakes, and cyclones? | Remember | CO 5 | ACE551.17 |
| 6 | Explicit the structural mitigations and non- structural mitigations that should be restored to in case of floods. | Remember | CO 5 | ACE551.17 |
| 7 | Elaborate on the various organizations which are involved in the research and mitigation of disasters. | Understand | CO 5 | ACE551.17 |
| 8 | Describe how the community of a village play the most important role in time of disaster as 'first responder' | Remember | CO 5 | ACE551.17 |
| 9 | Describe how a search rescue team assist a village in times of a hazards? | Understand | CO 5 | ACE551.17 |
| 10 | Enlist the various institutions and national centers involved in natural disaster reduction. | Understand | CO 5 | ACE551.17 |
| 11 | Elucidate different skills and techniques adopted by a disaster manager | Remember | CO 5 | ACE551.17 |
| 12 | Describe various major initiatives taken on Disaster Preparedness in India. | Understand | CO 5 | ACE551.17 |
| 13 | Discuss the important steps in relief distribution. Examine the problem areas during recovery phase of disaster management, | Remember | CO 5 | ACE551.17 |
| 14 | Illustrate the relationship between disaster and development with the help of examples from developed and developing countries. | Remember | CO 5 | ACE551.17 |
| 15 | Summarize the different types of damage reports. Identify the different types of rehabilitation. | Remember | CO 5 | ACE551.17 |

Prepared by:

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