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| LOGO.jpg | **GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**  (**AN AUTONOMOUS INSTITUTION**)  **(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)**  **(Accredited by NAAC with “A” Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)** |
| **QUESTIONBANK (DESCRIPTIVE)**  **Subject Name with Code: Disaster Management(22A0151T) CSE/ECE/EEE/AIML/CS/DS/MECH**  **Course & Branch: B. Tech & Civil Engineering**  **Year& Semester: IV-I Regulation: RG22** | |

**UNIT - I**

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| **S. No.** | **Question** | **[BT Level] [CO] [ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define disaster management. | **L1 CO1 2M** |
|  | What is the interdisciplinary nature of disaster management? | **L1 CO1 2M** |
|  | List any two stages of the disaster management cycle. | **L1 CO1 2M** |
|  | What are the five priorities for action under the Sendai Framework? | **L1 CO1 2M** |
|  | Name two natural disasters covered under case study methods. | **L1 CO1 2M** |
|  | What is a tsunami? | **L1 CO1 2M** |
|  | What is post-tsunami hazard? | **L1 CO1 2M** |
|  | Define global warming. | **L1 CO1 2M** |
|  | Give any two causes of landslides. | **L1 CO1 2M** |
|  | Differentiate between floods and droughts. | **L1 CO1 2M** |
| **Descriptive Questions (Long)** | | |
|  | Explain the disaster management cycle with a neat diagram. | **L2 CO1 12M** |
|  | Discuss the interdisciplinary nature of disaster management and its significance. | **L2 CO1 12M** |
|  | Interpret the five priorities for action under the Sendai Framework and their relevance to India. | **L2 CO1 12M** |
|  | Write a detailed case study on any two natural disasters (any two case studies floods, droughts, earthquakes, etc.). | **L2 CO1 12M** |
|  | What are the causes and impacts of tsunamis? Explain post-tsunami hazards along the Indian coast. | **L2 CO1 12M** |
|  | Explain the impact of global warming and climate change on natural disasters. | **L1 CO1 12M** |
|  | Discuss the causes, consequences, and mitigation strategies of landslides in India. | **L1 CO1 12M** |

**UNIT - II**

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| **S. No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | | |
|  | Mention any two causes of fire hazards. | **L1 CO2 2M** |
|  | What are transport hazard dynamics? | **L1 CO2 2M** |
|  | Define solid waste management. | **L1 CO2 2M** |
|  | What is bio-terrorism? | **L1 CO2 2M** |
|  | List two post-disaster consequences of bio-terrorism. | **L1 CO2 2M** |
|  | What are emerging infectious diseases? | **L1 CO2 2M** |
|  | Mention any two ways to manage AIDS as a disaster. | **L1 CO2 2M** |
|  | Give two examples of rail or air accidents in India. | **L1 CO2 2M** |
|  | What are industrial disasters? | **L1 CO2 2M** |
|  | Name any two man-made disasters common in urban areas. | **L1 CO2 2M** |
| **Descriptive Questions (Long)** | | | |
|  | Describe the causes and effects of fire hazards. Suggest preventive measures. | **L1 CO2 12M** |
|  | What are transport hazard dynamics? Explain with examples of major rail or air accidents in India. | **L2 CO2 12M** |
|  | Describe solid waste management and types in detail. | **L2 CO2 12M** |
|  | Discuss bio-terrorism and biological agents with historical examples. | **L2 CO2 12M** |
|  | Explain the rise of EIDs and AIDS as modern disasters. How are they managed globally and in India? | **L2 CO2 12M** |
|  | Explain Threats in megacities, rail and aircraft accidents. | **L2 CO2 12M** |

**UNIT - III**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | | |
|  | Define vulnerability in disaster management. | **L1 CO3 2M** |
|  | What is social vulnerability? | **L1 CO3 2M** |
|  | Mention two aspects of environmental vulnerability. | **L1 CO3 2M** |
|  | What are building codes? | **L1 CO3 2M** |
|  | State the importance of land use planning in disaster management. | **L1 CO3 2M** |
|  | Define sustainable development. | **L1 CO3 2M** |
|  | What is climate change risk rendition? | **L1 CO3 2M** |
|  | How does macroeconomic policy help in disaster management? | **L1 CO3 2M** |
|  | Mention two tools used for financial management of disaster losses. | **L1 CO3 2M** |
|  | What is meant by risk assessment? | **L1 CO3 2M** |
| **Descriptive Questions (Long)** | | | |
|  | Define risk and vulnerability. Explain the types of vulnerabilities with examples. | **L2 CO3 12M** |
|  | Discuss the role of building codes and land use planning in reducing disaster risk. | **L2 CO3 12M** |
|  | Explain how macroeconomic management can support sustainable development in the context of disasters. | **L2 CO3 12M** |
|  | What is environmental vulnerability? Discuss with reference to urban and rural settings. | **L2 CO3 12M** |
|  | Discuss the importance and methods of financial management for disaster-related losses. | **L2 CO3 12M** |
|  | Explain how climate change contributes to disaster risk and discuss the strategies for climate risk reduction. | **L2 CO3 12M** |
|  | Explain Social Vulnerability and how disasters impact vulnerable groups. | **L2 CO3 12M** |

**UNIT - IV**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | What is the role of GIS in disaster management? | **L1 CO5 2M** |
|  | Define taxonomy of infrastructure. | **L1 CO5 2M** |
|  | Mention two critical infrastructure systems affected by disasters. | **L1 CO5 2M** |
|  | What is a mitigation programme? | **L1 CO5 2M** |
|  | Draw a simple flowchart of disaster management for earthquake mitigation. | **L1 CO5 2M** |
|  | How are roads and bridges vulnerable to disasters? | **L1 CO4 2M** |
|  | What are treatment plants in disaster-sensitive areas? | **L1 CO4 2M** |
|  | Define multimedia technology in disaster training. | **L1 CO4 2M** |
|  | What is transformable indigenous knowledge? | **L1 CO4 2M** |
|  | Mention two technologies used for drought assessment in agriculture. | **L1 CO4 2M** |
| **Descriptive Questions (Long)** | | |
|  | Explain the role of geospatial technology in agriculture and drought assessment. | **L1 CO5 12M** |
|  | What is the taxonomy of infrastructure in disaster management? Explain with examples. | **L1 CO5 12M** |
|  | Discuss the role of multimedia technology in disaster risk management and training. | **L1 CO5 12M** |
|  | Write a detailed note on mitigation programs for earthquakes with a flowchart. | **L1 CO5 12M** |
|  | How can transformable indigenous knowledge be integrated into modern disaster reduction strategies? | **L2 CO4 12M** |
|  | Explain taxonomy of infrastructure in treatment plants and process facilities. | **L2 CO4 12M** |
|  | Explain taxonomy of infrastructure in electrical substations, roads and bridges | **L2 CO4 12M** |

**UNIT - V**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define disaster risk reduction education. | **L1 CO5 2M** |
|  | Mention two essentials of school disaster education. | **L1 CO5 2M** |
|  | What is community capacity in disaster resilience? | **L1 CO5 2M** |
|  | Define social capital in disaster management. | **L1 CO5 2M** |
|  | What is community-based disaster management (CBDM)? | **L1 CO6 2M** |
|  | Mention two methods of community-based disaster recovery. | **L1 CO6 2M** |
|  | What do you mean by designing resilience? | **L1 CO6 2M** |
|  | State the importance of public awareness in disaster preparedness. | **L1 CO6 2M** |
|  | Name any two training programs for community preparedness. | **L1 CO6 2M** |
|  | What is the role of local governance in disaster management? | **L1 CO6 2M** |
| **Descriptive Questions (Long)** | | |
|  | What is the role of education in disaster risk reduction? Discuss the essentials of school disaster education. | **L1 CO5 12M** |
|  | How can community capacity and resilience be built to prepare for disasters? Explain with examples. | **L2 CO5 12M** |
|  | Explain community-based disaster recovery (CBDR) with Phases involved. | **L2 CO6 12M** |
|  | Discuss the role of social capital in community-based disaster management. | **L2 CO6 12M** |
|  | Explain the concept of Designing Resilience. | **L2 CO6 12M** |
|  | Illustrate building community capacity for action. | **L1 CO6 12M** |

**Signature of the Staff:**

**Signature of Department Academic Committee Member 1:**

**Signature of Department Academic Committee Member 2:**

**Signature of Department Academic Committee Member 3:**