



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal-500043, Hyderabad

B.Tech VI SEMESTER END EXAMINATIONS (REGULAR) - JULY 2023

Regulation: UG-20

DISASTER MANAGEMENT

(Common to CSE | CSE (AI&ML) | CSE (DS) | CSE (CS) | CSIT | IT | EEE | ME)

Time: 3 Hours

Max Marks: 70

Answer ALL questions in Module I and II

Answer ONE out of two questions in Modules III, IV and V

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

MODULE – I

1. (a) How is environmental hazard linked to ecology? Discuss the spectrum of environmental hazard from geophysical events to human activities. [BL: Understand| CO: 1|Marks: 7]
- (b) List the various environmental disasters caused by humans. Explain the integrated landscape approaches in sustainable development. [BL: Understand| CO: 1|Marks: 7]

MODULE – II

2. (a) Mention the different types of man-made disaster with special reference to Bhopal gas leak tragedy. [BL: Understand| CO: 3|Marks: 7]
- (b) Discuss how exogenous and endogenous hazards impact legal, political and health systems. [BL: Understand| CO: 2|Marks: 7]

MODULE – III

3. (a) Outline the various types of hazards associated with earthquakes and discuss the various methods of mitigation of earthquake hazards. [BL: Understand| CO: 3|Marks: 7]
- (b) Identify the various causes of volcanoes. Discuss the hazards which are associated with volcanic eruptions. [BL: Understand| CO: 3|Marks: 7]
4. (a) Give examples including the salient features of major disasters caused by earthquakes in different parts of India during the last three decades. [BL: Understand| CO: 4|Marks: 7]
- (b) What are the pre-disaster measures to be taken to prevent loss of life due to the earthquakes? [BL: Understand| CO: 4|Marks: 7]

MODULE – IV

5. (a) Summarize various causes of floods and explain the different methods of flood control measures. [BL: Understand| CO: 5|Marks: 7]
- (b) Elucidate disaster mitigation and discuss the contribution of United Nations agencies in it. [BL: Understand| CO: 5|Marks: 7]

6. (a) Determine the causes of tropical cyclones and local storms and also list the steps to be adopted to mitigate the same. [BL: Understand| CO: 5|Marks: 7]
- (b) Categorize different types of drought. Suggest relief and rehabilitation measures for any two types of drought. [BL: Understand| CO: 5|Marks: 7]

MODULE – V

7. (a) Discuss about the steps involved in emergency management. Outline the role of government agencies for disaster management. [BL: Understand| CO: 6|Marks: 7]
- (b) List the different stages of disaster management. Write in detail about pre- disaster stage [BL: Understand| CO: 6|Marks: 7]
8. (a) Differentiate mitigation and preparedness. Outline the organizational structure for disaster management in India. [BL: Understand| CO: 6|Marks: 7]
- (b) Justify why the recovery phase is essential after a disaster. Mention the salient features of national disaster management act 2016. [BL: Understand| CO: 6|Marks: 7]

