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# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech V Semester End Examinations (Regular) - November, 2018

Regulation: IARE – R16

## DISASTER MANAGEMENT

Time: 3 Hours

(Common to CSE | IT | ECE | AE)

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

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

### UNIT – I

- (a) Distinguish between environmental hazards, environmental disasters and environmental stress. Explain environmental stress, in detail. [7M]  
(b) Explain in detail the requirements of disaster preparedness in disaster management cycle. [7M]
- (a) What do you understand by the term ‘Disaster Management’? Describe in detail the guidelines of Government of India for disaster management. [7M]  
(b) Discuss in detail about how human perception changes with environment degradation. [7M]

### UNIT – II

- (a) Distinguish between endogenous and exogenous hazards with examples and explain its principle of formation. [7M]  
(b) Write a note on the formation of cyclones? Discuss some of the measures to mitigate cyclones. Discuss the flood-prone regions in India. [7M]
- (a) What is the difference between natural disasters and Man-made disasters? Explain them briefly with examples. [7M]  
(b) Draw a flow chart of planetary and extra planetary hazards and explain. [7M]

### UNIT – III

- (a) Critically evaluate the role played by NGO'S in disaster management plan at the time of disasters. [7M]  
(b) Explain Human adjustment, perception and mitigation of earthquake in India [7M]
- (a) Explain the different type of failures experienced during landslides with sketches. Mention the remedial measures to overcome landslides. [7M]  
(b) Write a note on Richter Scale. Describe the different type of hazards experienced during any major earthquake occurred in India. [7M]

### UNIT – IV

- (a) How could you differentiate a hazard and a disaster. Under what category will you put Bhopal Gas Tragedy in India? Explain it in detail. [7M]  
(b) What are the toxic chemicals and describe a few measures that can be taken to reduce the impact of such events? [7M]

8. (a) Distinguish between cyclone and storm. Discuss the different types of storms in detail. [7M]  
(b) Describe the process of sedimentation in detail. Explain sediment as physical and chemical pollutant. [7M]

**UNIT – V**

9. (a) What are the steps involved in disaster management cycle. Write a brief note on the emergency stage of a disaster. [7M]  
(b) Write a short note on capacity building for an earthquake vulnerability reduction. [7M]
10. (a) State the essential elements of a disaster management plan. Describe the steps to be followed at a flood affected site. How is rehabilitation related to disaster management. [7M]  
(b) Write a note on environment and disaster management. Describe the recommendations of Rio Summit of 1991. [7M]

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