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Question Paper Code: ACE533



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Four Year B.Tech V Semester End Examinations(Regular) - November, 2019  
Regulation: IARE – R16

**DISASTER MANAGEMENT AND MITIGATION**

**Time: 3 Hours**

**(CE)**

**Max Marks: 70**

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**Answer ONE Question from each Unit**

**All Questions Carry Equal Marks**

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

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**UNIT – I**

1. (a) Write an account on human ecology and mention its application in geographical researches. [7M]  
(b) Describe the following approaches and comment its applications:
  - i) Ecosystem approach
  - ii) Perception approach[7M]
2. (a) What is a disaster? Give an example from a real incident. [7M]  
(b) Write an account on different approaches to disaster management and relation with human ecology. [7M]

**UNIT – II**

3. (a) Discuss about the impact of disasters on poverty and deprivation. [7M]  
(b) What are the consequences of the phenomenon of drought? Explain briefly. [7M]
4. (a) Describe the various types of man made disasters and highlight the specific efforts to mitigate disasters in India. [7M]  
(b) Write a note on social hazard. Discuss the extra-planetary hazard in detail. [7M]

**UNIT – III**

5. (a) Explain the various preventive measures that has to follow to reduce the risk due to volcanoes. [7M]  
(b) Write a note on man-made landslides. State what are the mitigation measures at the time of land-slides. [7M]
6. (a) What causes earthquakes? What are the harmful effects of earthquakes? [7M]  
(b) What is endogenous hazards? Illustrate the causes and distribution of volcanoes. [7M]

#### UNIT – IV

7. (a) Write a brief note on soil erosion and its conservation. [7M]  
(b) Describe the structural mitigations and non- structural mitigations that should be restored to in case of floods. [7M]
8. (a) Differentiate between natural and manmade disasters and discuss damages. [7M]  
(b) How can search rescue team assist a village in times of hazards? Discuss any four man induced hazards. [7M]

#### UNIT – V

9. (a) Define disaster management. Write in brief on the post-disaster stage. [7M]  
(b) Explain the problems the disaster management has to face if safety measures taken by them are found to be in-adequate. [7M]
10. (a) Discuss role of geographical information system application in drought assessment. [7M]  
(b) Write the role of non-governmental organizations (NGO'S) in disaster reduction practices. [7M]