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Question Paper Code: ACE551



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Four Year B.Tech V Semester End Examinations(Regular) - November, 2019

Regulation: IARE – R16

DISASTER MANAGEMENT

Time: 3 Hours

(Common to CSE | IT)

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

1. (a) List the various stages of perception approach. Highlight the significance of planning for ensuring disaster prevention. [7M]
- (b) Define ecology? Explain with the help of diagram ecosystem approach. [7M]
2. (a) Elucidate the following in detail
 - i) Environmental stress
 - ii) Landscape approach [7M]
- (b) Examine the changing complexion of disaster management in the contemporary context. [7M]

UNIT – II

3. (a) Write short notes on technological disasters. Throw light on the development perspective to disaster management. [7M]
- (b) How can you relate fire to a man made hazard? Illustrate in detail. [7M]
4. (a) Demonstrate the various types of natural disaster and highlights the specific efforts to mitigate disasters in India. [7M]
- (b) Differentiate about between endogenous hazards and exogenous hazards [7M]

UNIT – III

5. (a) How earthquake occurs? Demonstrate any two earthquake hazards in India. [7M]
- (b) What is epicenter and focus? Draw with a neat diagram. Based on depth classify types of earthquakes. [7M]
6. (a) Demonstrate the hazardous effects of volcanic eruptions. Illustrate the causes and distribution of volcanoes. [7M]
- (b) Comment on the distribution of earthquakes across the globe. List out some deadliest disasters occurred in past. [7M]

UNIT – IV

7. (a) Enumerate the properties of soil. Suggest the best management practices of soil erosion and sedimentation. [7M]
- (b) Bhopal gas incident is the one of the biggest manmade disaster in the world. Identify the damage made by incident. [7M]
8. (a) State urbanization. Give the reasons for large scale migration to urban areas and the consequences of rapid urbanization. [7M]
- (b) Write down the effects of cyclones and storms. Can you suggest some ways and methods to destroy cyclones. [7M]

UNIT – V

9. (a) Why should every village have a disaster management committee? Write short notes. [7M]
- (b) Relate the building collapse during earthquake to impact of earthquake disaster and explicit both pre and post disaster measures undertaken to mitigate the suffering of people in an earthquake situation. [7M]
10. (a) Describe the measures taken during a landslide disaster. How does the community of a village play the most important role in times of disaster as 'first responder'. [7M]
- (b) What is a pre disaster measure? Bring to light major initiatives on disaster preparedness in India. [7M]