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Question Paper Code: ACE551



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)

B.Tech VI Semester End Examinations (Regular) - May, 2019

Regulation: IARE – R16

DISASTER MANAGEMENT

Time: 3 Hours

(Common to CSE/IT/ECE/EEE/ME)

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) Write briefly about how hazards can become a disaster. Distinguish between hazard and disaster giving examples [7M]
- (b) Define biological hazards. Explain the various hazards affecting the environment [7M]
2. (a) Define environmental stress. Explain briefly about the concept of environmental stress and disaster [7M]
- (b) Discuss the role and functions of a disaster manager. Explain clearly about landscape approach and perception approach of disaster management. [7M]

UNIT – II

3. (a) Write a note on social hazard. Explain the various types of environmental hazards. [7M]
- (b) Discuss about the planetary and extra-planetary hazard. Explain briefly about the planetary disasters. [7M]
4. (a) Examine the role of corporate social responsibility as an emerging avenue in managing disasters. [7M]
- (b) What causes earthquakes and why? Illustrate the five worst man-made disasters in history. [7M]

UNIT – III

5. (a) In what zones earthquakes occur in India? Explain the reason why it occurs in those zones? [7M]
- (b) Define volcanic ash and write its importance. What are the environmental effects due to volcanic eruption? [7M]
6. (a) Discuss the methods that can be adopted to reduce the effect of volcanic eruption. [7M]
- (b) What are the pre disaster measures taken to manage earthquake disaster? [7M]

UNIT – IV

7. (a) Define cyclones? Write a short note on tropical cyclones and local storms. [7M]
- (b) What are the causes of floods? Explain the flood control measures in brief. [7M]

8. (a) What is sedimentation? What are the environmental impacts due to sedimentation problems. [7M]
(b) What are exogenous hazards? Explain briefly about the biological hazards and its management [7M]

UNIT – V

9. (a) Explain the role of knowledge based expert system in the area of disaster management. [7M]
(b) Write in brief on the post-disaster stage. Draw disaster cycle and explain the phases involved in it. [7M]
10. (a) What are the pre disaster measures which would have reduced the impact of landslide disaster? Explain. [7M]
(b) What is structural mitigation? Explain the role of insurance sector in disaster resistant constructions. [7M]

