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INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

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

Regulation: IARE – R16

DISASTER MANAGEMENT AND MITIGATION

Time: 3 Hours

(CE)

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) Mention the differences between hazard and disaster. How does human perception changes with environmental degradation? [7M]
- (b) What is environmental stress? Describe the ecosystem approach to mitigate environmental stress. [7M]
2. (a) Define ecosystem and explain ecology in environment. How to prevent a hazard from changing into a disaster? [7M]
- (b) Describe natural disasters and man-made disasters in detail. [7M]

UNIT – II

3. (a) Write a note on global atmospheric changes. Write a note on floods and discuss its types and causes. [7M]
- (b) Draw a detailed flow chart on planetary Hazards and extra planetary hazards with examples. [7M]
4. (a) Explain the types of disasters and discuss Bhopal gas tragedy in detail. [7M]
- (b) Differentiate between endogenous hazards and exogenous hazards with examples and state its principle of occurrence. [7M]

UNIT – III

5. (a) Discuss the paradigm shift in disaster management in India. [7M]
- (b) Write a note on: International Decade for National Disaster Reduction. [7M]
6. (a) Explain the different causes of landslides, in detail. State the remedial measures to reduce landslides. [7M]
- (b) With a neat sketch write a note on volcanoes. State the lessons learnt from the Bhuj Earthquake of 2001. [7M]

UNIT – IV

7. (a) Explain briefly about phases in disaster management cycle. [7M]
- (b) Describe the emergency operations required during fire hazards in urban areas [7M]

8. (a) What is remote sensing and how is it useful in disaster management? Explain. [7M]
(b) What is the role of Non-Government and Inter-Governmental Agencies in disaster management? [7M]

UNIT – V

9. (a) Describe the structural mitigations and non- structural mitigations that should be restored in case of floods. [7M]
(b) What is a Yokohama strategy and plan of action for safer world? [7M]
10. (a) Define EIA. Describe the necessity of risk identification and assessment surveys while planning a project? [7M]
(b) Write a short notes on information management during a disaster? [7M]

