

R13**Code No: 126EC****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, May - 2019****DISASTER MANAGEMENT****(Common to EEE, ME, ECE, AE, MIE, PTM)****Time: 3 hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**(25 Marks)**

- 1.a) Define human ecology and ecosystem. [2]
- b) What is Hazard and disaster mapping? [3]
- c) What is environmental hazard? [2]
- d) List the types of environmental hazards. [3]
- e) What are the techniques for volcanic hazard mitigation? [2]
- f) What is Seismograph and Seismogram? [3]
- g) Define soil erosion. [2]
- h) What are the various components of post flood rehabilitation measures? [3]
- i) What are the steps in the process of disaster preparedness [2]
- j) What is Disaster management cycle? [3]

PART - B**(50 Marks)**

- 2.a) Define disaster and list out the important perceptions on disasters.
- b) What are the different approach for disasters with human ecology? [5+5]

OR

- 3.a) Discuss various types of natural disasters in India and highlight their effects.
- b) Explain the various stages of perception approach. [5+5]

- 4.a) List the natural disaster phenomena likely in the Indian subcontinent.
- b) Describe the regional and seasonal profile of any two disasters. [5+5]

OR

- 5.a) Discuss the various types of natural disasters and highlight the specific efforts to mitigate disasters in India.
- b) Discuss in detail the endogenous hazards. [5+5]

- 6.a) List the various types of hazards associated with earthquakes and discuss their impacts.
- b) Identify and discuss the various hazards which are associated with volcanic eruptions. [5+5]

OR

- 7.a) List a few of the prominent earthquakes which occurred in India in last two decades and what are the lessons learnt from them?
- b) Discuss the earthquake risk mitigation techniques. [5+5]

- 8.a) What are the different types of drought? Suggest relief and rehabilitation measures for any two types of drought.
- b) Differentiate between structural and non-structural measures of flood mitigation and discuss the importance of forecasting, warning and monitoring system in India. [5+5]

OR

- 9.a) List and prioritize the mitigation tools for reducing the risks associated with floods.
- b) Discuss the proposed plan of linking the rivers in the context of its usefulness to combat the flood menace in India. [5+5]
- 10.a) What is the disaster preparedness plan and its various aspects.
- b) Discuss the mitigation strategies with reference to specific disasters. [5+5]

OR

- 11.a) Response is the first stage of the Disaster management cycle. Discuss.
- b) Discuss in brief the Disaster Management Act 2005. [5+5]

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