

R15

Code No: 125DX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, November/December - 2017

DISASTER MANAGEMENT

(Common to CSE, CE, CEE)

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)

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| 1.a) Define Environmental stress. | [2] |
| b) Define Vulnerability? | [3] |
| c) What are the characteristics of earth's environments? | [2] |
| d) List various types of environmental hazards. | [3] |
| e) How are volcanoes and earthquakes distributed? | [2] |
| f) Discuss possible way to mitigate the impact of Earthquakes. | [3] |
| g) What is a Cyclone and list its general characteristics? | [2] |
| h) Explain the four different types of drought. | [3] |
| i) What is disaster preparedness mean? | [2] |
| j) Explain the action involved in post disaster phase. | [3] |

PART - B

(50 Marks)

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| 2.a) What are the stressors of the environment? | |
| b) What is meant by human ecology and how is it related to disasters? | [5+5] |
| OR | |
| 3.a) Discuss in brief about landscape, ecosystem and perception approaches in relation with human ecology. | |
| b) Prepare a list of significant causes of different man-made disaster. | [5+5] |
| 4.a) Discuss in brief the types of environmental hazards and disasters. | |
| b) List natural disasters occurring in your area explain two of them. | [5+5] |
| OR | |
| 5.a) Discuss how exogenous and endogenous hazards impact legal, political, health and other societal systems. | |
| b) Write brief note on planetary and extra-planetary hazards. | [5+5] |
| 6.a) What are landslides? List out five major causes of landslides in India. | |
| b) What are the effects of the volcanoes on the environment? | [5+5] |
| OR | |
| 7.a) What are the harmful effects of earthquakes on the environment? | |
| b) Suggest risk reduction measures for landslide mitigation. | [5+5] |

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- 8.a) Explain in detail the conditions necessary for the development of a cyclone.
b) Identify the elements that are at risk in areas that are prone to drought and identify five risk reduction measures to combat drought. [5+5]

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- 9.a) Identify risk reduction measures for cyclones.
b) List out some of the causes and adverse effects of floods. [5+5]

- 10.a) Briefly discuss the Disaster Management Cycle with suitable examples.
b) Discuss the present and emerging approaches in Disaster management. [5+5]

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- 11.a) Write in detail the emergency stage of a disaster management.
b) Explain in brief the rehabilitation, reconstruction and recovery of post disaster stage. [5+5]

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