

R18

Code No: 156DP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, February - 2023

DISASTER PREPAREDNESS AND PLANNING MANAGEMENT

(Common to EEE, ME, ECE, CSE, IT, AE, MIE)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Explain Vulnerability Assessment. [2]
- b) Illustrate Hazard Mapping. [3]
- c) Briefly explain the causes of climate change. [2]
- d) Write a note on Disaster and development. [3]
- e) Explain disaster impact on ecology. [2]
- f) Explain disaster impact on health. [3]
- g) Discuss the role of resilience in crisis management. [2]
- h) How Early Warning Systems (EWS) prevents disaster to happen? [3]
- i) Explain disaster recovery policy. [2]
- j) Explain disaster preventive mechanism. [3]

PART – B

(50 Marks)

- 2.a) What do you understand by the terms Hazard, vulnerability, risk, capacity and crisis, mitigation, early warning, capacity.
- b) Describe the relationship between hazard, risk, vulnerability and capacity. [5+5]

OR

- 3.a) What are the 'unsafe conditions' and 'dynamic pressures' operating in your area?
- b) Which tool will you use to analyze the risk of your area? [5+5]

- 4.a) Discuss about the vulnerability of India to earthquake related hazards. Give examples including the salient features of major disasters caused by earthquakes in different parts of India during the last three decades.

- b) Explain classification and types of disasters. [5+5]

OR

- 5.a) Vulnerability is an essential element for defining disaster impacts and its threat to people. How and in what ways can vulnerability to disasters be characterized? Discuss different types of vulnerability with reference to disasters.

- b) The frequency of earthquakes appears to have increased in the Indian subcontinent. However, India's preparedness for mitigating their impact has significant gaps. Discuss various aspects. [5+5]

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- 6.a) Which demographic aspects do you consider to assess the disaster impact?
- b) Explain global and national disaster trends. [5+5]

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- OR**
- 7.a) Write a note on global climate change and its impact.
 - b) Explain few urban disasters, also explain which factors are effecting. [5+5]

- 8.a) Discuss the recent measures initiated in disaster management by the Government of India departing from the earlier reactive approach.
- b) Why does disaster risk matter? How do you measure disaster risk? [5+5]

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- OR**
- 9.a) Discuss the role of IT in disaster prevention.
 - b) Explain the role and functions of a disaster communication systems. [5+5]

- 10.a) What are the factors that contribute to the vulnerability of the community to the hazard and disaster?
- b) Explain how urbanization is effecting the environment and development. [5+5]

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- OR**
- 11.a) What do you mean by environment and development after disaster.
 - b) Illustrate sustainable and environmental friendly system. [5+5]

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