

Code No: 156DP**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, July - 2023****DISASTER PREPAREDNESS AND PLANNING MANAGEMENT****(Common to EEE, ME, ECE, 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) What are environmental hazards? Give two examples. [2]
b) Explain briefly what you understand by Chemical, Industrial and Nuclear Hazards. [3]
c) What are Oil spills? Explain. [2]
d) Explain the terms coastal erosion and soil erosion. [3]
e) What are the causes of droughts? [2]
f) What is Triage? How can it help in classifying injuries? [3]
g) What is the importance of disaster preparedness in the era of unpredictable weather conditions? [2]
h) “The most important aspect of coping is providing counseling and psychological support”-Comment. [3]
i) I) Define Recovery. II) List out the four R’s around which recovery aspects revolve. [2]
j) Explain what you mean by Post-Disaster risk reduction. [3]

PART – B**(50 Marks)**

- 2.a) What is Vulnerability? Discuss the various types of vulnerability.
b) Discuss the relationship between hazard, vulnerability and disaster and explain how Vulnerability and Capacity are two sides of the same coin. [5+5]

OR

- 3.a) Discuss the factors that determine the severity of a hazard.
b) Explain the tools used for vulnerability assessment. [5+5]
- 4.a) What are Earthquakes? Why do they occur? What makes them a hazard?
b) Present a brief hazard and vulnerability profile of India. [5+5]

OR

- 5.a) Name at least four states/UTs in India which are vulnerable to Tropical cyclones.
b) Outline the initial conditions for emergence of tropical cyclones.
c) Discuss briefly the guidelines of NDMA regarding Tropical cyclones. [4+3+3]

- 6.a) Explain the causes of landslides, their effects.
b) Discuss the management and mitigation measures of landslides. [5+5]

OR

- 7.a) Explain the role of public health system in disaster management.
b) Examine the relationship between environmental degradation and disasters. [5+5]

- 8.a) Discuss the structural mitigation measures in detail citing suitable examples.
b) Explain briefly the Disaster Risk Reduction (DRR) programmes in India. [5+5]

OR

- 9.a) Explain the various principles of preparedness.
b) Do you think these principles are important and should be followed; If yes, why? [5+5]

- 10.a) What are the methods of disaster management?
b) Discuss, in detail, the steps in the reconstruction process. [5+5]

OR

11. Illustrate an example of a disaster impacting development through the use of a disaster case study you are conversant with. [10]

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