

III B. Tech I Semester Regular Examinations, February-2022

DISASTER MANAGEMENT

(Common to Civil Engineering, Petroleum Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

UNIT-I

1. a) What are flash floods? Explain about one recent flash flood that affected large population of a region in India. [8M]
 b) Explain the types of drought and drought preparedness with Mitigation. [7M]

(OR)

2. a) What are the causes for the Tsunami 2004 which inflicted heavy loss to life and property along the coast of Tamil Nadu? Specify its epicenter and magnitude. [8M]
 b) Define earthquake and explain in detail about the types, causes and preventive measures of earthquake. [7M]

UNIT-II

3. a) Discuss a case study about forest fire in India. [8M]
 b) What are the Mitigation Measures for your home to prevent it from disaster? [7M]

(OR)

4. a) Explain in detail about case study of storm surge. [8M]
 b) Describe any flooding disaster that occurred in India and write the various lessons that you have learned from it. [7M]

UNIT-III

5. a) Discuss the various factors affecting vulnerability in disaster management. [8M]
 b) Explain and list the impact of development projects and embankments. [7M]

(OR)

6. a) Explain the relevance of indigenous knowledge in Disaster Risk reduction technological and economical aspect. [9M]
 b) Discuss the important human factors that tend to influence disaster severity. [6M]



UNIT-IV

7. a) What is GIS? How this application helps in disaster management process? [8M]
b) Explain the risk assessment types and steps involved in it. [7M]

(OR)

8. a) How would you illustrate the role of National Disaster Management Authority in India? [8M]
b) What is the role of GIS Application and Information technology on analysing the Chennai Floods in 2015? [7M]

UNIT-V

9. a) Why there is a need for capacity building? Categorize its vital components. [8M]
b) Explain on the public awareness and public education for disaster risk reduction. [7M]

(OR)

10. a) Explain the risk reduction strategies followed by the Government of India during the times of disaster. [8M]
b) What are the fundamental underpinnings of disaster risk management? [7M]

