

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S8 (S, FE) / S8 (PT) (S, FE) Examination May 2024 (2015 Scheme)

**Course Code: CE488****Course Name: DISASTER MANAGEMENT**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any two full questions, each carries 15 marks.*

Marks

- 1 a) Explain major terminologies of disaster management based on a recent landslide in Kerala. (7)
- b) Define the terms Resilience, Emergency, Crisis and Exposure. (8)
- 2 a) Explain water cycle and bio-geochemical cycle with diagram. (8)
- b) Explain how the inter relationships with earth subsystems effect climate change. (7)
- 3 a) Explain plate tectonics, elastic rebound theory and seismic waves with suitable diagrams. (9)
- b) What are the possible protective measures that can be adopted against mass movements in Kerala. (6)

PART B*Answer any two full questions, each carries 15 marks.*

- 4 a) Describe flood plain zoning with suitable figure. (5)
- b) What are the geological factors that facilitate flood? (3)
- c) Describe different types of cyclones. (7)
- 5 a) Discuss the causes for generation of tsunami with suitable diagram. (8)
- b) List the various stages of development of a cyclone. (7)
- 6 a) List the solutions for soil desertification. (6)
- b) What is soil degradation? What are the solutions for soil degradation? (9)

PART C*Answer any two full questions, each carries 20 marks.*

- 7 a) Explain the stages of treatment of waste water. (10)
- b) Discuss about Biological Oxygen Demand. (5)
- c) Write a note on human activities that results in water pollution. (5)
- 8 a) How does air pollution effects living organism. (6)
- b) What are the effects of ozone layer depletion on mankind? (9)

- c) Discuss control measures of vehicular pollution. (5)
- 9 a) Recently Kerala witnessed many floods. Recommend suitable measure to prevent such disaster. (8)
- b) Explain role of channel improvement and drainage improvement for flood management. (6)
- c) List the important points to be considered in the development of evacuation plan for flood. (6)
