

C

1000CET445122202



Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Seventh Semester B.Tech Degree (S, FE) Examination May 2024 (2019 Scheme)

Course Code: CET445

Course Name: NATURAL DISASTERS AND MITIGATION

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- 1 Explain the terms capacity and resilience with the help of examples. (3)
- 2 With the help of an example, illustrate the interaction between geosphere and atmosphere. (3)
- 3 Enlist effects of Volcanic eruption on: 1) Environment 2) Biodiversity 3) Economy. (3)
- 4 How is a tsunami formed? List out any six possible impacts of tsunami. (3)
- 5 What is desertification? Explain any four causes of desertification. (3)
- 6 What are the causes of wildfire? (3)
- 7 Which are the core elements of disaster risk management? Explain. (3)
- 8 Compare and contrast disaster prevention and disaster preparedness. (3)
- 9 List out the essential facilities to be ensured at a relief camp. (3)
- 10 What is the role of technology in disaster management? (3)

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

- 11 Recent reports have shown that that human-induced greenhouse gas emissions are the root main cause behind multiple disasters in recent years. Explain with some case studies. (14)

OR

- 12 a) Explain the terms (i) risk (ii) crisis (iii) emergency. (6)
- b) How is urbanization related disasters? (8)

Module II

- 13 Discuss the possible negative impacts of flood. List out the mitigation measures. (14)

OR

- 14 a) Explain the elastic rebound theory for earthquakes. (4)
b) Discuss the various hazardous effects of an earthquake. (10)

Module III

- 15 Define Soil Degradation. Discuss the factors which can cause soil degradation. (14)

OR

- 16 List out the impacts of landslides. Explain the control measures adopted to prevent landslides. (14)

Module IV

- 17 a) What is meant by onsite and offsite emergency plans? (6)
b) Explain in detail the various components of a disaster management plan. (8)

OR

- 18 How does SWOT analysis help in disaster management? Discuss the advantages and limitations of SWOT analysis. (14)

Module V

- 19 Prepare disaster management plan in the case of landslide on a railway track near station. (14)

OR

- 20 Explain the various steps in EIA for a major infrastructure project. Discuss how following EIA rules can abate any possible disaster. (14)
