

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OCTOBER 2019

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 | Define the following terms: | |
| | (a) Disaster | 5 |
| | (b) Vulnerability | 5 |
| | (c) Resilience | 5 |
| 2 | (a) What is Green house effect? | 5 |
| | (b) What are the causes behind Green house effect? | 10 |
| 3 | (a) Explain the various hazardous effects of earthquakes. | 10 |
| | (b) Write short notes on Landslides. | 5 |

PART B

Answer any two full questions, each carries 15 marks.

- | | | |
|---|---|----|
| 4 | (a) What are the causes of Tsunamis | 6 |
| | (b) Give adverse effects of tsunamis. | 5 |
| | (c) Discuss about the tsunami mitigation measures. | 4 |
| 5 | (a) What are the pre disaster measures taken to manage coastal disaster | 10 |
| | (b) What are the reasons for Kerala flood? | 5 |
| 6 | (a) Explain different causes of desertification. | 10 |
| | (b) Explain how to manage the impact of desertification | 5 |

PART C

Answer any two full questions, each carries 20 marks.

- | | | |
|---|--|------|
| 7 | a) Differentiate mitigation and preparedness. | (4) |
| | b) How to prevent a hazard from changing into a disaster? Explain with an example. | (6) |
| | c) Enumerate the possible risk reduction measures in Flooding. | (10) |
| 8 | a) Differentiate primary and secondary air pollutant with example. | (3) |
| | b) Explain natural and man-made sources of air pollution. | (5) |
| | c) Discuss the harmful effects of water pollution on human health, animal, plant, ecosystem and economy. | (12) |
| 9 | a) Define water pollution. | (3) |
| | b) Industries make a major contribution towards causing air pollution. Justify the statement. | (5) |
| | c) Explain the impact of water pollution with a suitable case study. | (12) |

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PART B

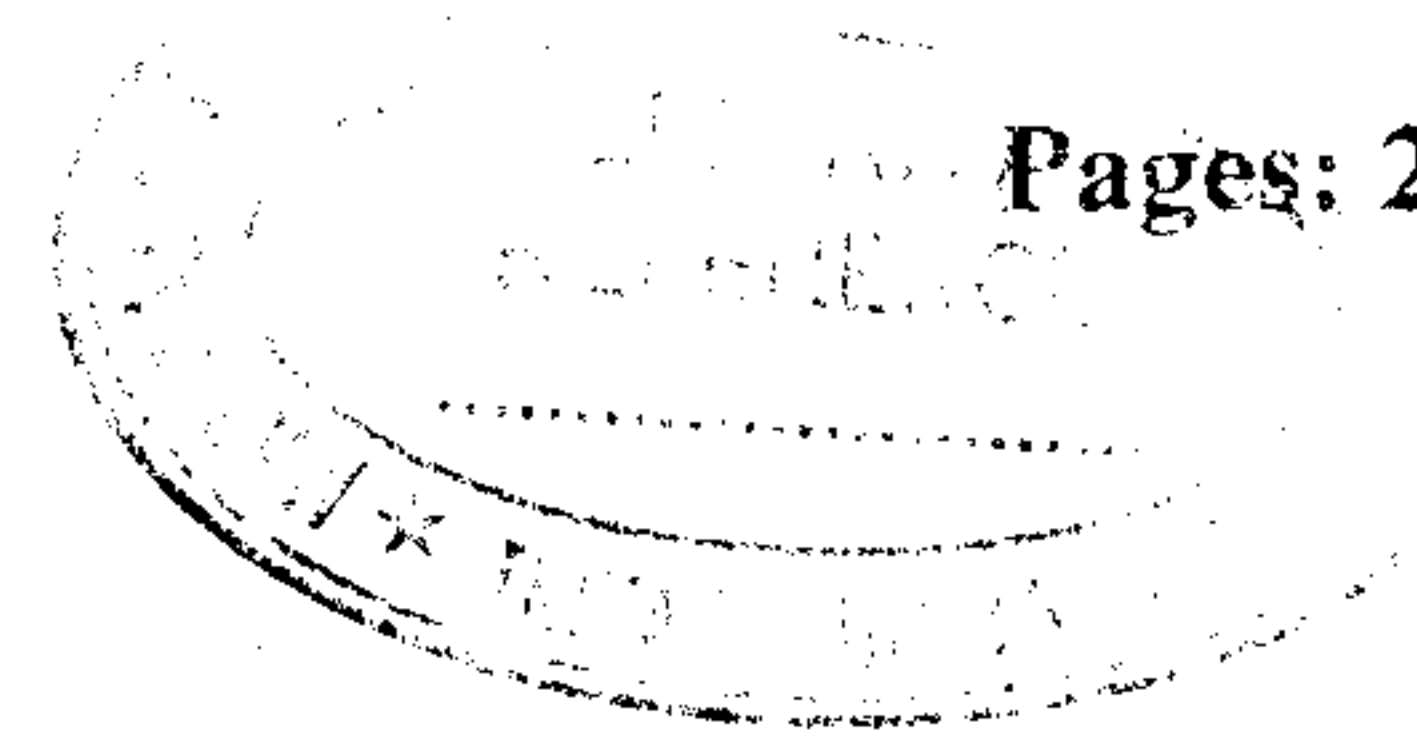
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

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 differences between hazards and disasters. | (8) |
| | b) Define the terms risk, vulnerability and crisis. | (7) |
| 2 | a) Explain the concept of green house effect. | (7.5) |
| | b) What is Global Warming and what are the main causes of global warming. | (7.5) |
| 3 | a) Write a short note on the impact of earthquakes. | (7.5) |
| | b) Explain the term vulnerability with respect to earthquakes | (7.5) |

PART B

Answer any two full questions, each carries 15 marks.

- | | | |
|---|--|-----|
| 4 | a) How do tsunamis originate? | (4) |
| | b) Why tsunamis become disastrous when they approach coastal regions? | (6) |
| | c) How will you assess the vulnerability of a coast to the attack of tsunamis? | (5) |
| 5 | a) List any five probable impacts of cyclones | (5) |
| | b) Explain the origin of cyclones | (4) |
| | c) Explain any one application of technology in cyclone disaster management | (6) |
| 6 | a) How do soils originate? | (4) |
| | b) What is soil degradation?: | (5) |
| | c) Explain the impacts of addition of e-waste to soils | (6) |

PART C

Answer any two full questions, each carries 20 marks.

- | | | |
|---|--|-----|
| 7 | a) What is water pollution. Briefly explain. | (2) |
| | b) List out the major causes of water pollution and describe | (8) |
| | c) Explain 'point sources' and 'non-point sources' of pollution with an example. | (6) |
| | d) List out the major water pollutants. | (4) |
| 8 | a) What is air pollution. | (2) |

- b) Discuss the major causes of air pollution. (6)
- c) What are the classification of air pollutants? Explain with example. (6)
- d) Describe the impacts of air pollution. (6)
- 9 a) Write a short note on flood forecasting (5)
- b) What are the mitigation measures for flood disaster? (8)
- c) What are the impacts of a cyclone? (7)
