

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**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)

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**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Eighth semester B.Tech degree examinations, September 2020

**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) Difference between hazard and disaster.   | (5)   |
|   | b) Explain the various reasons for the occurrence of an earthquake.                          | (10)  |
| 2 | a) Explain the different types of landslides.  | (7)   |
|   | b) Discuss the various components of an environment.   | (8)   |
| 3 | a) Explain the term global warming and green house effect.                                   | (5)   |
|   | b) What pre-disaster measures are taken to prevent loss of life due to an earthquake hazard? | (10)  |

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

- |   |   |     |
|---|---|-----|
| 4 | a) How tsunami occurs? How tsunami waves differ from a normal wave? | (7) |
|   | b) Explain the various impacts of desertification.                  | (8) |
| 5 | a) Explain the hazards related to Cyclone.                          | (6) |
|   | b) Explain the various impacts related to flood.                    | (9) |
| 6 | a) How cyclones can be effectively managed?                         | (7) |
|   | b) How can we protect an area from soil degradation?                | (8) |

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

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|---|--|------|
| 7 | a) What are the purposes of disaster management?   | (5)  |
|   | b) Distinguish between indoor air pollution and outdoor air pollution with example.  | (5)  |
|   | c) Explain the different types of water pollutants.  | (10) |
| 8 | a) Prevention is better than cure. Justify the statement in relation to water pollution.   | (5)  |
|   | b) What do you mean by hazard management plan?   | (5)  |
|   | c) Considering Kerala Flood 2018 as a case study, explain the applicable principles of disaster management to mitigate the effects of such disaster in future. | (10) |
| 9 | a) Which is the apex body of disaster management in India?   | (2)  |
|   | b) Distinguish between Air Quality Index and Water Quality Index.  | (8)  |
|   | c) Explain the activities that contributes maximum to air pollution in India.  | (10) |

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