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

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 2020

**Course Code: CE369**

**Course Name: DISASTER MANAGEMENT**

Max. Marks: 100

Duration: 3 Hours

**PART A**

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

Marks

- |   |   |     |
|---|---|-----|
| 1 | a) Define disaster and explain disaster management act.   | (4) |
|   | b) Explain disaster management cycle with suitable figure.  | (6) |
|   | c) Explain impacts of landslides.   | (5) |
| 2 | a) Define emergency and crisis.   | (6) |
|   | b) Illustrate different types of seismic waves.   | (4) |
|   | c) Explain the possible risk reduction methods for earthquake.                                      | (5) |
| 3 | a) What do you mean by focus of an earthquake? Explain with neat sketch.                            | (3) |
|   | b) Explain causes of mass movement.   | (6) |
|   | c) One of the main reasons for recent natural disasters in Kerala is improper development. Comment. | (6) |

**PART B**

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

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|---|---|-----|
| 4 | a) How Tsunamis are generated- Explain.   | (6) |
|   | b) What is a natural disaster? Explain with suitable example.   | (4) |
|   | c) Explain causes of soil desertification.  | (5) |
| 5 | a) Give the difference between soil degradation and soil loss.  | (4) |
|   | b) Explain the significant mitigation measures that can be implemented in Kerala in view of future flood hazards? | (5) |
|   | c) Explain the causes of soil erosion and the factors affecting soil erosion.                                     | (6) |
| 6 | a) Write the causes of soil salination.   | (2) |
|   | b) Explain soil desertification and its effects.  | (6) |
|   | c) Explain causes of floods and its adverse effects.  | (7) |

**PART C**

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

- 7 a) Explain different types of air pollution. (6)  
b) Indian cities are facing severe air pollution problems, recommend some suitable methods to prevent air pollution in these areas. (8)  
c) Explain flood plain zoning and its advantages. (6)
- 8 a) Illustrate the effects of water pollution. (8)  
b) Explain different structural measures for flood water management. (6)  
c) Explain different types of cyclones and its management plans. (6)
- 9 a) Explain the causes of water pollution. (8)  
b) Illustrate the actions to be taken for reducing the risk of Tsunami. (6)  
c) Explain flood forecasting methods in detail. (6)

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