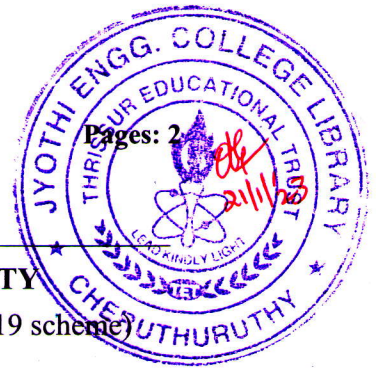


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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Examination December 2022 (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 | How does a hazard differ from a disaster? Explain with examples. | (3) |
| 2 | What is carbon footprint? How is it related to disasters? | (3) |
| 3 | Discuss the classification of earthquakes. | (3) |
| 4 | What is storm surge? What are its causes? | (3) |
| 5 | Discuss the various ecological functions served by soil. | (3) |
| 6 | Differentiate translational and rotational slides | (3) |
| 7 | Explain the different phases in disaster risk management cycle. | (3) |
| 8 | What are the major actions included in disaster response? | (3) |
| 9 | Enumerate the facilities to be ensured in an emergency relief camp. | (3) |
| 10 | What are the objectives of a disaster management plan? | (3) |

PART B

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

Module I

- | | | |
|----|--|-----|
| 11 | a) What does the term urbanization mean? How is urbanization related to disaster? | (6) |
| | b) Illustrate the interactions between sub-systems of earth in the case of fossil fuel extraction and consumption. How can this lead to disasters? | (8) |

OR

- | | | |
|----|--|-----|
| 12 | a) Explain the terms (i) exposure (ii) vulnerability (iii) capacity. | (6) |
| | b) Explain the term resilience. How does resilience of a community influence the recovery from a disaster? | (8) |

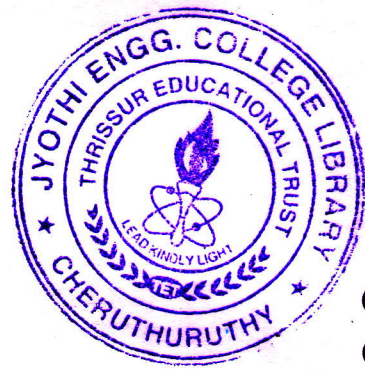
Module II

- | | | |
|----|--|------|
| 13 | Discuss the various hazards associated with a volcano. | (14) |
|----|--|------|

OR

- | | | |
|----|---|------|
| 14 | Discuss the mitigation measures to reduce the impact of tsunamis. | (14) |
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Module III

- 15 a) What are the different types of forest fires? Explain. (6)
b) Discuss the negative impacts of a forest fire. (8)

OR

- 16 Discuss in detail the mitigation measures that can be adopted to alleviate the impacts of soil desertification. (14)

Module IV

- 17 Explain SWOT analysis and its uses in disaster management. What are the advantages and disadvantages of the method? (14)

OR

- 18 What are the factors that determine the nature of disaster response? Explain. (14)

Module V

- 19 What are the steps involved in EIA process in India? (14)

OR

- 20 Explain the pre-disaster, disaster and post-disaster phase measures taken for a flood. (14)
