

C

1000CET445112401

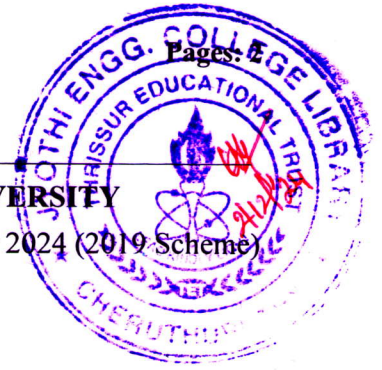
Pages: 4

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (R, S) / S5 (PT) (R,S) Examination November 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 | Differentiate between secondary and chronic hazard. | (3) |
| 2 | Define the terms a) risk, b) resilience and c) exposure. | (3) |
| 3 | Discuss the categories of volcanos. | (3) |
| 4 | Explain the term magnitude and intensity of earthquake. | (3) |
| 5 | Define Soil and describe its formation. | (3) |
| 6 | Discuss about various fuel for forest fire. | (3) |
| 7 | Describe the benefits of Community Participation. | (3) |
| 8 | Explain the three specific categories of disaster preparedness. | (3) |
| 9 | Examine how technology helps in disaster management. | (3) |
| 10 | Discuss about "Relief Camp" | (3) |

PART B

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

Module I

- | | | |
|----|--|-----|
| 11 | a) Propose strategies to reduce the carbon footprint of an urban area. | (7) |
| | b) Examine the interplay between urbanization and the increased frequency of urban floods. | (7) |

OR

- | | | |
|----|--|-----|
| 12 | a) Explain the interaction between subsystems of earth that bring hazards. | (7) |
| | b) What is meant by hazard? Explain the classification of hazard. | (7) |

Module II

- | | | |
|----|---|-----|
| 13 | a) Explain the causes, adverse effect and mitigation measures of flood. | (7) |
| | b) Examine the effectiveness of existing storm surge barriers in protecting coastal communities and suggest improvements. | (7) |

OR

- 14 a) What to do when a tsunami warning is issued? (7)
b) Explain the causes, adverse effect and mitigation measures of earth quakes. (7)

Module III

- 15 a) Explain forest fire and its mitigation measures. (7)
b) Demonstrate the mitigation measures that can be adopted to reduce the impacts of soil degradation. (7)

OR

- 16 a) Examine the role of human activities in accelerating erosion and desertification. (14)
Design an action plan to overcome these issues.

Module IV

- 17 a) Illustrate the use of SWOT analysis in disaster management with suitable example. Discuss its benefits and negative impacts. (9)
b) Explain disaster management plan. (5)

OR

- 18 a) Explain disaster risk assessment. (7)
b) Explain participation of community in disaster management. (7)

Module V

- 19 a) Discuss the various steps involved in EIA process in India. (7)
b) Examine the pre-disaster, disaster and post-disaster phase measures taken for an earthquake. (7)

OR

- 20 a) Discuss the critical aspects of organizing relief camps during a disaster, including layout, food and water needs, sanitation, and security. (14)
