

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S5 (S,FE) (FT) (WP/PT) Examination May 2025 (2019 Scheme)

Course Code: MCN301**Course Name: DISASTER MANAGEMENT**

Max. Marks: 100

Duration: 3 Hours

PART A*(Answer all questions; each question carries 3 marks)*

Marks

- | | | |
|----|--|---|
| 1 | Differentiate between cyclones and anti-cyclones. | 3 |
| 2 | Explain the terms vulnerability and exposure. | 3 |
| 3 | State the main objectives of participatory mapping. | 3 |
| 4 | List are the two main components of risk assessment. | 3 |
| 5 | Explain target-oriented preparedness and task-oriented preparedness. | 3 |
| 6 | State the basic key steps of search and rescue. | 3 |
| 7 | Explain participatory stakeholder engagement. | 3 |
| 8 | Define risk and crisis communication. | 3 |
| 9 | Explain the role of State Disaster Management Authority. | 3 |
| 10 | Explain any three natural disasters with examples from our country. | 3 |

PART B*(Answer one full question from each module, each question carries 14 marks)***Module -1**

- | | | |
|----|--|---|
| 11 | a) Identify the importance of ozone layer and the reasons for its depletion. | 8 |
| | b) Explain Indian monsoon in detail. | 6 |
| 12 | a) Define lithosphere. Explain its composition and features. | 8 |
| | b) Explain Green House Effect in detail. | 6 |

Module -2

- | | | |
|----|--|---|
| 13 | a) Explain the uses of participatory mapping. | 5 |
| | b) Explain empirical methods and analytical models in measuring physical vulnerability | 9 |
| 14 | a) Explain the types of vulnerability. | 8 |
| | b) Explain hazard mapping with GIS. | 6 |

Module -3

- | | | | |
|----|----|--|----|
| 15 | a) | Explain the disaster risk management framework. | 10 |
| | b) | Explain the types of disaster prevention | 4 |
| 16 | a) | Explain the primary objectives of disaster mitigation | 5 |
| | b) | Explain the hazard and disaster mitigation functions of ecosystems | 9 |

Module -4

- | | | | |
|----|----|--|----|
| 17 | a) | Explain the three basic forms of stakeholders. | 6 |
| | b) | State and explain the potential benefits of increased stakeholder participation. | 8 |
| 18 | a) | Identify the effective ways of promoting stakeholder participation in disaster risk reduction. | 10 |
| | b) | Define crisis. List the instances of crisis. | 4 |

Module -5

- | | | | |
|----|----|--|----|
| 19 | a) | State and explain the objectives of national policy on disaster management? | 10 |
| | b) | List the priorities for action as per Sendai Framework | 4 |
| 20 | a) | Explain the first priority as per Sendai framework? How can it be achieved? | 9 |
| | b) | State and explain the role of NDRF in the context of National Policy on Disaster Management. | 5 |
