

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Examination December 2021 (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

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| 1 | Explain the relevance and adverse effects of greenhouse gases. | 3 |
| 2 | Discuss the two types of monsoon in Indian subcontinent. | 3 |
| 3 | State the major data requirements of hazard mapping and the 3 sources for obtaining these data. | 3 |
| 4 | State the principle of qualitative risk assessment and the method of expressing risk qualitatively. | 3 |
| 5 | State the different types of disaster response | 3 |
| 6 | List six international relief organizations | 3 |
| 7 | Distinguish between risk communication and crisis communication. | 3 |
| 8 | List the structural and nonstructural measures in capacity building | 3 |
| 9 | State the legislations in India on disaster management | 3 |
| 10 | Explain the interrelation of National Disaster Management Policy with other national policies. | 3 |

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

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| 11 | a) Categorize the various layers of atmosphere based on their distance from earth and explain the features of each layer with a neat diagram. | 8 |
| | b) Define the following terms: a) Disaster b) Hazard c) Risk | 6 |
| 12 | a) State and explain crisis counselling. Identify the necessity of crisis counselling. | 8 |
| | b) Identify the reasons for the depletion of Ozone layer . Suggest two initiatives which can be implemented at home to prevent this. | 6 |

Module -2

- 13 a) Define hazard mapping. Explain the two approaches of hazard mapping. 8
b) In Kerala for the past 5 years. the average number of road accidents is 44076 6
per year and 1 death occurs in every 10 accidents. Considering the population
as 3.33 crores, assess the risk of being killed in driving an automobile in
terms of societal and individual risk.
- 14 a) Explain the four different types of vulnerability. List any four socio- 8
economic indicators of human capital as livelihood asset.
b) Outline the two major physical vulnerability assessment approaches. 6

Module -3

- 15 a) Explain the core elements of disaster risk management. 10
b) State the requirements for effective disaster response. 4
- 16 a) Define the term 'disaster risk reduction'. Explain the measures for disaster 8
risk reduction.
b) Define 'relief' in the context of disaster management. Identify the principles 6
guiding relief.

Module -4

- 17 a) Describe the effective ways of promoting stakeholder participation in disaster 8
risk reduction. State its benefits.
b) Explain the basic steps in participatory stakeholder engagement. 6
- 18 a) Explain capacity building , relevance of capacity assessment and the different 10
methods of assessing capacity in disaster risk management.
b) State the barriers to effective communication in disaster management. 4

Module -5

- 19 a) Explain the common disaster types in India. 10
b) State the objectives and main elements of national disaster management 4
policy.
- 20 a) State the targets, priorities and guiding principles of Sendai Framework for 8
disaster risk reduction.
b) Explain the institutional arrangement for disaster management in India 6
