

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

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 2022 (2019 Scheme)

**Course Code: MCN 301****Course Name: DISASTER MANAGEMENT**

Max. Marks: 100

Duration: 3 Hours

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

Marks

- |    |   |   |
|----|---|---|
| 1  | Differentiate between acceptable risk and residual risk.                      | 3 |
| 2  | State the composition of lithosphere?   | 3 |
| 3  | Explain physical vulnerability and ecological vulnerability.                  | 3 |
| 4  | Define disaster deficit index.  | 3 |
| 5  | Explain psychosocial support related with disaster response.                  | 3 |
| 6  | List any six public health services required in responding to disasters.      | 3 |
| 7  | Explain pyramid scheme related with participatory stakeholder engagement.     | 3 |
| 8  | Define the terms counselling and crisis counselling.                          | 3 |
| 9  | Define man-made disasters and list examples from our country.                 | 3 |
| 10 | Explain the role of National Institute of Disaster Management in our country. | 3 |

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

- |    |   |   |
|----|---|---|
| 11 | a) Illustrate with diagram the layers of earth's atmosphere.  | 8 |
|    | b) State and explain the classification of rocks.   | 6 |
| 12 | a) State and explain the features of hydrosphere and biosphere in detail.                                     | 8 |
|    | b) Explain the terms resilience, recovery and early warning systems with respect to disaster risk management. | 6 |

**Module -2**

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|----|--|---|
| 13 | a) Explain the applications of hazard maps.  | 8 |
|    | b) Explain the methods of representing vulnerability.  | 6 |
| 14 | a) Explain the method of expressing population risk.   | 5 |
|    | b) List the components of risk assessment. Explain the contemporary approaches to risk assessment. | 9 |

**Module -3**

- |    |    |  |    |
|----|----|--|----|
| 15 | a) | State and explain the types of disaster mitigation measures.                                   | 4  |
|    | b) | Identify the factors that determine the nature of disaster response and explain.               | 10 |
| 16 | a) | State and explain the types of disaster preparedness.  | 6  |
|    | b) | Identify the standard operating procedures to be followed during a disaster stage and explain. | 8  |

**Module -4**

- |    |    |  |   |
|----|----|--|---|
| 17 | a) | State and explain the basic principles of participatory rural appraisal tools.                           | 5 |
|    | b) | Explain the characteristics of effective crisis counsellors. State the advantages of crisis counselling. | 9 |
| 18 | a) | State and explain the steps for effective communication.   | 8 |
|    | b) | Identify the barriers to effective communication.  | 6 |

**Module -5**

- |    |    |   |    |
|----|----|---|----|
| 19 | a) | List the global targets of Sendai framework and explain.  | 7  |
|    | b) | Explain the role, composition and responsibilities of National Disaster Management Authority.                           | 7  |
| 20 | a) | List the guiding principles of Sendai framework and explain.  | 10 |
|    | b) | State the composition and role of National Executive Committee related with the National Policy on Disaster Management. | 4  |

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