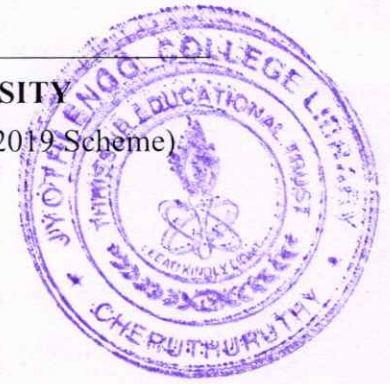


Reg No.: \_\_\_\_\_

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

B.Tech Degree S5 (S, FE) / S5 (PT) (S) Examination June 2024 (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  | Describe the role of the ozone layer in the Earth's atmosphere and its significance for life on the planet.          | 3 |
| 2  | Explain the greenhouse effect and its impact on global climate. Provide examples of greenhouse gases.                | 3 |
| 3  | Explain the significance of hazard mapping in disaster risk management.  | 3 |
| 4  | Define Natural Hazards and provide examples.   | 3 |
| 5  | Define the term 'disaster risk reduction'.   | 3 |
| 6  | Define 'relief' in the context of disaster management.   | 3 |
| 7  | Why is crisis counselling important in the aftermath of a disaster, and how does it differ from regular counselling? | 3 |
| 8  | Define the concept of capacity building in the context of disaster risk reduction.                                   | 3 |
| 9  | What are the objectives of the National Disaster Management Policy?  | 3 |
| 10 | State the legislations in India on disaster management.  | 3 |

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

- |    |   |    |
|----|---|----|
| 11 | a) Classify the layers of Earth's atmosphere based on their distance from the surface and explain the distinctive features of each layer. | 10 |
|    | b) Differentiate between disaster preparedness and disaster response.   | 4  |
| 12 | Differentiate between igneous, sedimentary, and metamorphic rocks. Provide examples of each.  | 14 |

**Module -2**

- 13 a) Explain the types of vulnerabilities and approaches to assess them. 10  
b) Outline the two major physical Vulnerability assessment approaches. 4
- 14 a) List the components of risk assessment Explain the contemporary approaches to risk assessment. 10  
b) Explain the application of hazard maps. 4

**Module -3**

- 15 a) Explain the core elements of disaster risk management. 7  
b) Discuss the role of international relief organizations in disaster response and recovery. 7
- 16 a) Describe different types of disaster responses. 7  
b) State and explain the types of disaster mitigation measures. 7

**Module -4**

- 17 a) Explain the concept of participatory stakeholder engagement in the context of disaster management. Provide two examples of how involving stakeholders can enhance the effectiveness of disaster response and recovery efforts. 10  
b) Describe the key qualities and attributes that make a crisis counsellor effective. 4
- 18 a) What are the steps to effective disaster communication? 10  
b) Explain the differences between risk communication and crisis communication. 4

**Module -5**

- 19 a) What are the typical types of disasters that frequently occur in India? 10  
b) Explain the institutional arrangement for disaster management in India. 4
- 20 Explain the guiding principles target and priorities for action according to the Sendai Framework for disaster risk reduction. 14

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