

Register No.: ..... Name: .....

## SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**FIFTH SEMESTER B.TECH DEGREE EXAMINATION (S), FEBRUARY 2024**

**COMMON TO ALL BRANCHES**

**(2020 SCHEME)**

**Course Code : 20MCN301**

**Course Name: Disaster Management**

**Max. Marks : 50**

**Duration: 2 Hours**

### PART A

*(Answer all questions. Each question carries 3 marks)*

1. Explain the working of ecosystems in Biosphere.
2. State the major data requirements of hazard mapping along with the sources for obtaining these data.
3. Summarize different types of Disaster Preparedness involved in Disaster Risk Management Framework.
4. Distinguish between risk communication and crisis communication.
5. Highlight the legislations in India on Disaster Management.

### PART B

*(Answer one full question from each module, each question carries 7 marks)*

#### MODULE I

6. Define the following terms in the context of Disaster Management (7)  
(i) Disaster (ii) Vulnerability (iii) Capacity (iv) Resilience

**OR**

7. a) Categorize different layers of the atmosphere based on temperature variation. (4)  
b) Explain the relevance and adverse effects of greenhouse gases. (3)

#### MODULE II

8. Explain the four different types of vulnerability. List any two socio-economic indicators of natural capital as livelihood asset. (7)

**OR**

9. a) Construct a Risk Assessment matrix for the potential hazards : Flood and Pandemic. (4)  
b) Outline the two major physical vulnerability assessment approaches. (3)

#### MODULE III

10. Illustrate the core elements in Disaster Management Framework. (7)

**OR**

11. a) Define the term 'disaster mitigation'. Explain the types of disaster mitigation measures adopted with examples. (4)
- b) Explain various types of disaster prevention with respect to Disaster Risk Management. (3)

**MODULE IV**

12. a) Explain Crisis Counselling and highlight the characteristics of an effective crisis counsellor. (4)
- b) State the barriers for effective communication in disaster management. (3)

**OR**

13. Explain briefly about different levels of involvement by Stakeholder in designing the participatory process. (7)

**MODULE V**

14. Describe in detail about common disaster types in India. (7)

**OR**

15. a) State the Goal and Global Targets of Sendai framework for disaster risk reduction (2015-2030). (4)
- b) List the priorities of Sendai Framework for Disaster Risk Reduction (2015-2030). (3)

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