

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

## SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

### FIFTH SEMESTER B.TECH DEGREE EXAMINATION (Regular), DECEMBER 2022 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 different types of rocks and their formation.
2. State the major data requirements of hazard mapping and the major sources for obtaining them.
3. List six International Relief Organizations.
4. Describe Structural and Non Structural Measures in Capacity Building.
5. Explain the interrelation of National Disaster Management Policy with other national policies

#### 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) Vulnerability (ii) Disaster (iii) Resilience (iv) Capacity

##### OR

7. a) Categorize different layers of the atmosphere based on temperature variation. (4)
- b) Differentiate Cyclones and Anti-cyclones. (3)

##### MODULE II

8. Define Hazard and summarize various types of hazards. (7)

##### OR

9. a) Construct a Risk Assessment matrix for the potential hazards : Flood & Earthquakes. (5)
- b) Define economic and environmental vulnerability with respect to disaster management. (2)

##### MODULE III

10. Explain in detail on the core elements of Disaster Risk Management. (7)

**OR**

11. a) Define Disaster Preparedness and explain different types of Disaster Preparedness. (4)  
b) Differentiate between Disaster Prevention and Mitigation giving examples. (3)

**MODULE IV**

12. a) Describe the effective ways of promoting stakeholder participation in disaster risk reduction. (5)  
b) Highlight the characteristics of an effective Crisis Counsellor. (2)

**OR**

13. Illustrate different levels of involvement of stakeholder in designing the participatory process. (7)

**MODULE V**

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

**OR**

15. State the Targets, priorities and guiding principles of Sendai framework for disaster risk reduction (7)

\*\*\*\*\*