

(3 Hours)

Total Marks: 80

Note:

1. **Question No. 1 is compulsory.**
2. Attempt any **THREE** out of the remaining **FIVE** questions.
3. Assume suitable data if necessary.

- 1 Answer the following (any 4) (20)
- a) Define the terms: Hazard, Vulnerability, Risk 5
  - b) Discuss the Direct and indirect effects of disasters 5
  - c) What is Disaster Scenario of India? 5
  - d) Explain types of Manmade disasters. 5
  - e) What is Climate Change? What are the effects of Global Warming? 5
- 2
- a) What are different types of flood? Enlist structural mitigation measures for flood. 10
  - b) Explain the types of landslide and factors affecting them. Give a case study for the same. 10
- 3
- a) What are different government agencies responsible for various types of disasters? 10
  - b) Explain roles and responsibilities of NDMA in detail. 10
- 4
- a) Discuss the role of GIS and Remote Sensing in disaster management. 10
  - b) Describe the institutional mechanism setup in India. 10
- 5
- a) What is role of NGOs in disaster management? Enlist major NGOs working on disaster management. 10
  - b) Explain Bio shield and Sea wall in detail with schematic diagram. 10
- 6
- a) What is Community Base Disaster Management (CBDM)? Discuss how it is useful in Indian scenario. 10
  - b) What are Do's and don'ts in Earthquake, Tsunami and Cyclone? 10

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