

(3 Hours)

[Total Marks :80]

**Notes:**

1. **Question No 1 is compulsory.**
2. Answer **any 4** from remaining questions.
3. **Illustrate** you answers with **neat sketches** wherever necessary.
4. Write proper **Question** and **sub question numbers** as assigned in this question paper.
5. **Assume** suitable data wherever necessary if not given. However, **justify** the same.
6. Wherever necessary support your answers with relevant **disaster case studies** ( if required ).

1. **Answer the following (any 4)** **20**
  - a) Define what do you mean by Disaster, hazard and vulnerability.
  - b) Write a brief note on Natural Disaster and Man-Made Disaster
  - c) State the various ways fire accidents occur and explain the ways to avoid it.
  - d) Write a short note on: Importance of public awareness of Disasters.
  - e) Explain the ways to raise finance for relief expenditure for disaster.
  - f) Write a short Note on: International relief aid agencies and their role in extreme events.
  - g) Explain the importance and principles of disaster management policies.
  
2.
  - a) Short Note on: Direct and indirect effects of disasters. **10**
  - b) Explain Disaster management Act 2005. **10**
  
3.
  - a) Explain in brief: NIDM and NDMA **10**
  - b) State the Applications of GIS, Remote sensing and GPS in disaster management. **10**
  
4.
  - a) State the application of internet and software's for effective disaster management. **10**
  - b) Explain Pre-disaster, during disaster and post-disaster measures in some events in general. **10**
  
5.
  - a) State the role various NGO's and the works they have carried out in the past on the occurrence of various disasters. **10**
  - b) What do you mean by Structural mapping and early warning and communication in Disaster Management? **10**
  
6.
  - a) State the Do's and Don'ts in case for various disasters. **10**
  - b) How urbanization and changing lifestyle of human beings causes manmade disasters? **10**