

Time : 3 Hours

Marks : 80

1. Question no. 1 **compulsory.**
2. Answer any three questions out of remaining five
3. Attempt sub questions in order
4. Figures to the right indicate full marks.

1. Explore the following topics (**any 4**): **[20]**
 - a) Evolving approaches to disaster management in India.
 - b) Urban flooding: Implications for major cities.
 - c) Leveraging technology for disaster preparedness.
 - d) Global aid organizations in crisis response.
 - e) Guidelines for earthquake safety.
 - f) Human repercussions of natural calamities.
2. a) Outline the functions and duties of NIDM **[06]**
2. b) Evaluate the impact of disasters on infrastructure and their hindrance to developmental projects. **[06]**
2. c) Define early warning systems and illustrate their benefits through recent instances of flood, cyclone, and tsunami alerts. **[08]**
3. a) Examine NDMA's directives for disaster preparedness in India. **[06]**
3. b) Examine the collaborative efforts of government bodies and NGOs in disaster management. **[06]**
3. c) Explain Triage. Analyze the importance of initial response in disaster management. **[08]**
4. a) Investigate the contributions of international aid agencies during extreme crises. **[07]**
4. b) Explore the applications of GPS and GIS in drought mitigation strategies. **[07]**
4. c) Describe non-structural measures for pandemic containment. **[06]**
5. a) Assess the involvement of different stakeholders in mass casualty situations. **[06]**
5. b) Delve into the paradox of industrialization: economic progress versus the threat of industrial mishaps. **[08]**
5. c) Highlight the protective role of natural ecosystems against disasters, with examples **[06]**
6. a) Define liquefaction and debate the merits of retrofitting versus relocation in landslide-prone areas. **[06]**
6. b) Define vulnerability and its significance in disaster management. **[04]**
6. c) Enumerate preparedness measures for minimizing chemical disaster losses. **[05]**
6. d) Propose strategies for funding disaster relief efforts and discuss legal considerations **[05]**
