

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.

QP-10057108

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]