

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]