Disaster Management · GS - III

Examine the role of early warning systems, disaster preparedness and institutional coordination in reducing the vulnerability of coastal regions to extreme weather events.

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 11/11/2026	GS - III	Disaster Management

MARKS	WORD LIMIT
10	~150 words

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Answer Hint

Early warning systems, meteorological forecasting, coastal vulnerability, evacuation planning, urban flooding, critical infrastructure, institutional coordination, community participation, disaster-resilient infrastructure.

Model Answer

Introduction

Extreme weather events such as cyclones, torrential rainfall and storm surges increasingly threaten coastal populations, infrastructure and economic activities. Their impacts depend significantly on the effectiveness of disaster preparedness.

Role of Early Warning Systems

Accurate forecasting by meteorological agencies enables authorities to anticipate hazards, issue timely alerts and organise preventive evacuations. Red, orange and yellow warning systems help communicate the severity of expected conditions.

Disaster Preparedness and Coordination

- **Evacuation and shelters:** Pre-identified routes, cyclone shelters and emergency transport reduce casualties.

- **Urban resilience:** Improved drainage, floodplain management and resilient infrastructure limit flooding.
- **Institutional coordination:** Meteorological agencies, disaster management authorities, local governments and emergency services must coordinate their response.
- **Community participation:** Public awareness, local volunteers and accessible warning messages improve preparedness.

Challenges

Forecast uncertainty, inadequate last-mile communication, unplanned urbanisation and unequal access to emergency services can weaken disaster response.

Conclusion

Disaster risk reduction requires moving beyond emergency relief towards anticipatory governance, resilient infrastructure and community-based preparedness. Effective coordination can substantially reduce the human and economic costs of extreme weather events.

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