Disaster Management · GS - III

Explain the causes and impacts of major earthquakes. Discuss the measures required to improve tsunami preparedness and disaster management.

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 17/10/2026	GS - III	Disaster Management

MARKS	WORD LIMIT
10	~150 words

Answer Hint

Plate tectonics, seismic waves, earthquake magnitude, tsunami generation, early-warning systems, evacuation, resilient infrastructure, disaster preparedness, NDMA.

Model Answer

Introduction

Earthquakes occur due to the sudden release of energy within the Earth's crust, commonly along tectonic faults. Undersea earthquakes can trigger tsunamis when they cause substantial displacement of the seafloor.

Impacts of Major Earthquakes

1. Human impact: Deaths, injuries and displacement of communities.
2. Infrastructure damage: Destruction of buildings, roads, bridges and essential services.
3. Secondary disasters: Tsunamis, landslides, fires and disruption of transport and communication.
4. Economic losses: Damage to businesses, agriculture and critical infrastructure.

Disaster Management Measures

1. Strengthen seismic monitoring and tsunami early-warning systems.
2. Enforce earthquake-resistant building codes.
3. Develop evacuation routes and conduct regular emergency drills.
4. Improve public awareness and coordination among disaster-management agencies.
5. Protect vulnerable coastal communities through preparedness plans.

Conclusion

Earthquakes cannot be prevented, but scientific monitoring, resilient infrastructure and timely evacuation can significantly reduce casualties and economic losses.