Geography · GS - I

Explain the significance of the Northeast Monsoon for southern India. Discuss the major hazards associated with intense rainfall and the measures required for effective disaster management.

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 14/10/2026	GS - I	Geography

MARKS	WORD LIMIT
10	~150 words

Answer Hint

Northeast Monsoon, October–December, Tamil Nadu, easterly winds, Bay of Bengal low-pressure systems, cyclones, groundwater recharge, agriculture, urban flooding, riverine floods, landslides, IMD alerts, NDMA, SACHET portal, NDRF/SDRF, early-warning systems, resilient infrastructure, evacuation and community preparedness.

Model Answer

1. Introduction

The Northeast Monsoon, generally active from October to December, is an important source of rainfall for southeastern India, particularly Tamil Nadu. It supports agriculture and water availability but can also cause disasters when rainfall is excessive.

2. Causes and Regional Impact

Seasonal wind reversal brings northeasterly winds across the Bay of Bengal, where they acquire moisture. Low-pressure systems and cyclones can intensify rainfall. Tamil Nadu, Puducherry and coastal Andhra Pradesh are particularly exposed, while parts of Kerala, Karnataka and Telangana may also receive heavy rainfall depending on

the weather system.

3. Benefits and Hazards

The monsoon replenishes reservoirs and groundwater and supports crops. However, intense rainfall can cause urban flooding, river overflow, landslides, infrastructure damage and disruption of livelihoods.

4. Government Measures and Rescue

IMD forecasts, NDMA’s SACHET alert system and CWC flood information support early warnings. NDRF and SDRF assist in evacuation and rescue. Better drainage, wetland protection, floodplain zoning, safe shelters and public awareness can reduce losses.

5. Conclusion

Scientific forecasting, resilient infrastructure and community preparedness are essential to maximise the benefits of the Northeast Monsoon while minimising disaster risks.

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