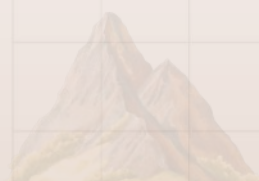
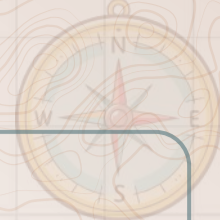




# Climate Of India

- **India's climate** - Tropical Monsoon type.
- **Tropical reason** - Tropic of Cancer passes almost through the middle of India.
- **Monsoon reason** - Strong seasonal reversal of winds.
- **South of Tropic of Cancer** - Tropical climate.
- **North of Tropic of Cancer** - Subtropical and temperate climate.
- **Himalayan region** - Temperate and tundra type climate.
- **Western India** - Desert climate.
- **Andaman and Nicobar** - Equatorial climate.
- **Churu** - May record 50°C or more in June.
- **Drass** - May drop to -45°C in winter.
- **Mawsynram and Cherrapunji** - More than 1080 cm annual rainfall.
- **Jaisalmer** - Rarely more than 9 cm rainfall.
- **Climate factors** - Location and relief; air pressure and winds.
- **Latitude** - Controls tropical, subtropical and temperate conditions.
- **Himalayas** - Block cold winds and trap monsoon winds.
- **Distance from sea** - Controls continentality.
- **Altitude** - Temperature decreases with height.
- **Relief** - Controls windward and leeward rainfall.





- **Jet speed** - About 110 Km/hr in summer and 184 Km/hr in winter.
- **Western disturbances** - Winter systems from Mediterranean region.
- **Tropical cyclones** - Affect Tamil Nadu, Andhra Pradesh and Odisha coasts.
- **ITCZ** - Low-pressure convergence zone near equator.
- **ITCZ in July** - Around 20°N to 25°N over Gangetic plain.
- **Monsoon trough** - ITCZ over Ganga plain.
- **Southwest monsoon** - Caused by cross-equatorial trade winds deflected by Coriolis force.
- **High pressure near Madagascar** - Affects Indian monsoon.
- **Easterly jet stream** - Steers tropical depressions into India.
- **Southwest monsoon season** - June to September.
- **Monsoon burst** - Sudden onset with heavy rain, thunder and lightning.
- **Arabian Sea branch** - Splits into three parts.
- **Western Ghats windward side** - Receives 250 cm to 400 cm rainfall.
- **Rain-shadow area** - East of Western Ghats.
- **Bay of Bengal branch** - Enters West Bengal and Bangladesh from south and south-east.
- **Rainfall in Ganga plains** - Decreases from east to west.
- **Breaks in monsoon** - Rainless intervals in July and August.
- **Main cause of breaks** - Northward shift of monsoon trough.
- **Withdrawal of monsoon** - October to December.
- **October Heat** - Hot and humid weather during retreating monsoon.
- **North-east monsoon** - Brings rain to Coromandel Coast.
- **Jet stream** - High-altitude westerly wind belt.





- **Four seasons** - Winter, summer, southwest monsoon and retreating monsoon.
- **Rainfall variability** - Measured by Coefficient of Variation.
- **Low variability areas** - More than 100 cm rainfall.
- **High variability areas** - Less than 50 cm rainfall.
- **Koeppen types** - Am, Aw, BSh, BWh, Cwa/Cwb and H.




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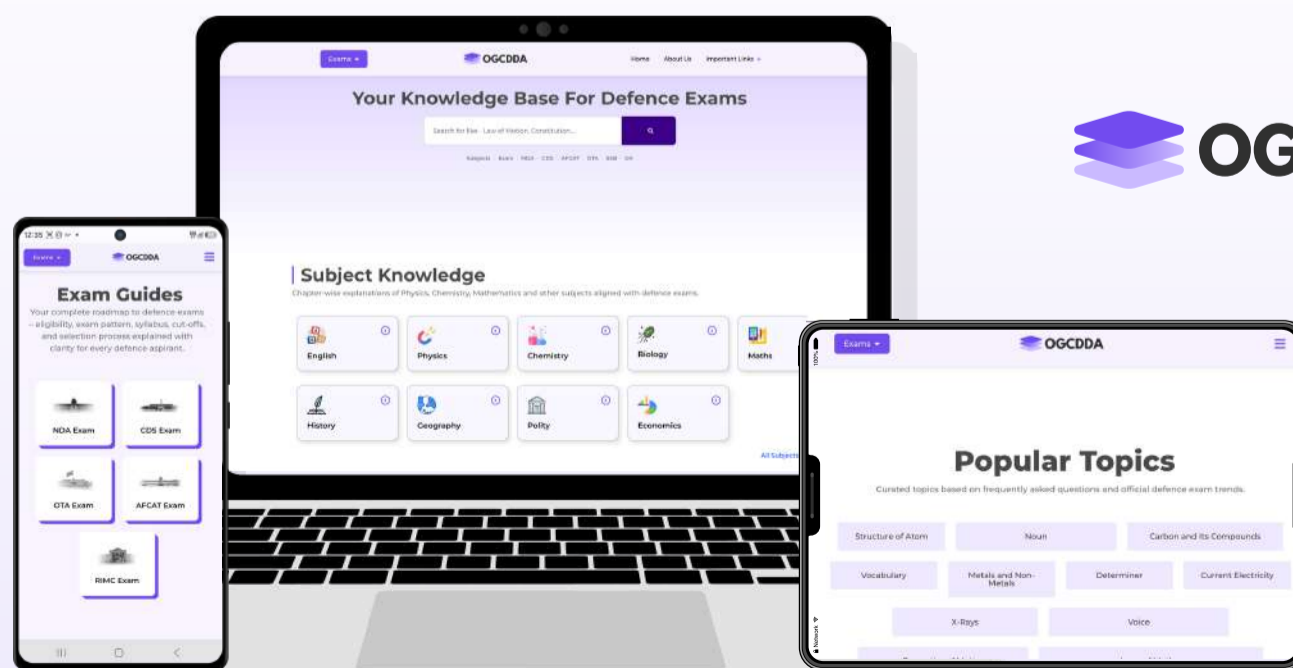
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