

NCERT QUESTIONS WITH SOLUTIONS

1. Match the climatic factors with their effects:

Column I		Column II	
(A)	Latitude	(i)	Brings wet air to India during summer
(B)	Altitude	(ii)	Creates different climates in the north and south
(C)	Proximity to the ocean	(iii)	Keeps higher places cooler
(D)	Monsoon winds	(iv)	Moderates the temperature

Ans.

Column I		Column II	
(A)	Latitude	(iii)	Keeps higher places cooler
(B)	Altitude	(iv)	Moderates the temperature
(C)	Proximity to the ocean	(i)	Brings wet air to India during summer
(D)	Monsoon winds	(ii)	Creates different climates in the north and south

2. Answer the following questions:

(i) What is the difference between weather and climate?

Ans. Weather refers to the short-term atmospheric conditions of a place, while climate is the long-term average of weather patterns over many years.

(ii) Why do places near the ocean have milder temperatures than places far away from it?

Ans. Places near the ocean have milder temperatures because the ocean moderates the temperature, preventing extreme heat in summer and severe cold in winter.

(iii) What role do monsoon winds play in affecting India's climate?

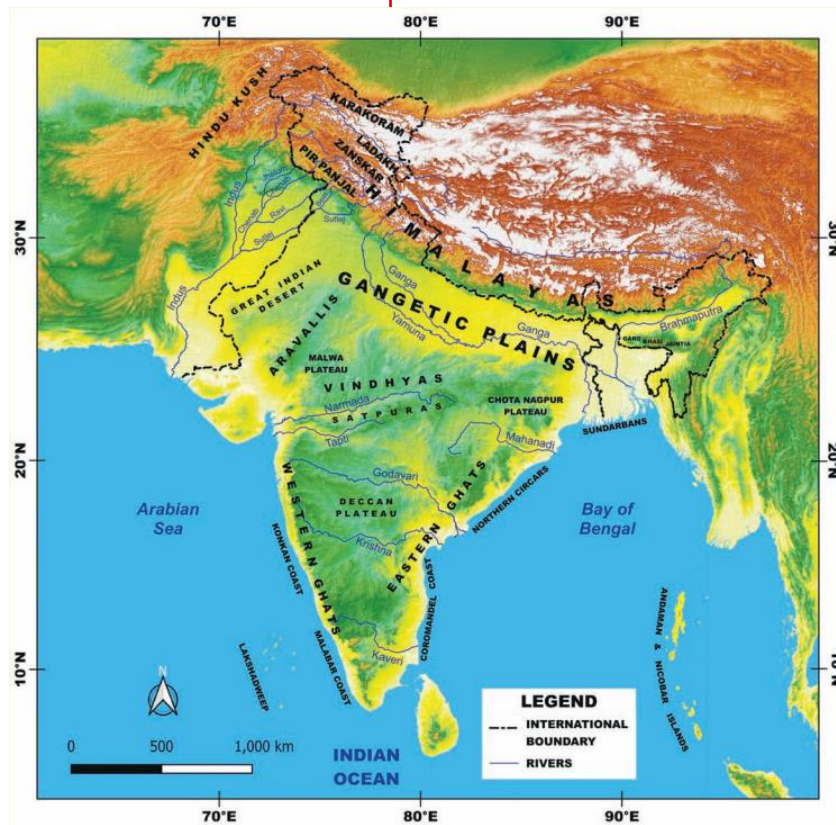
Ans. Monsoon winds bring wet air to India during summer, causing heavy rainfall and influencing the overall climate of the region.

(iv) Why is Chennai warm or hot throughout the year, while Leh is cold?

Ans. Chennai remains hot throughout the year because of its proximity to the ocean, which keeps temperatures stable, while Leh is cold because it is at a high altitude, making it cooler.

3. Look at a map of India given below. Identify the climate for these cities Leh, Chennai, Delhi, Panaji and Jaipur.

- Is the place near the sea, near the mountains, or in the desert?
- How do these factors affect the climate there?



Ans. Here is the climate classification and geographical influence for each city:

Leh

1. Location: Near the Himalayas, high altitude
2. Climate: Cold and dry
3. Effect: High altitude keeps it cold throughout the year, and it receives very little rainfall.

Chennai

1. Location: Coastal, near the Bay of Bengal
2. Climate: Hot and Humid
3. Effect: The ocean moderates the temperature, keeping summers very hot but winters mild with high humidity.

Delhi

1. Location: Inland, near the northern plains

2. Climate: Extreme – very hot summers and cold winters
3. Effect: Being far from the sea causes large temperature variations between seasons.

Panaji

1. Location: Coastal, near the Arabian Sea
2. Climate: Moderate, warm, and humid
3. Effect: The sea breeze keeps temperatures moderate with heavy monsoon rains in summer.

Jaipur

1. Location: Inland, near the Thar Desert
2. Climate: Hot and dry
3. Effect: The desert causes extremely hot summers and dry winters with little rainfall.