

C.I. Difference between weather and climate

Weather

Ans: 1. Weather is the condition of the atmosphere at a particular place and a long period of time.

2. Atmospheric conditions can change within a short period like minutes, hours, day, etc.

3. The study of weather forecasting is known as meteorology.

Climate

1. Climate is the average weather condition of a place over a long period of time.

2. Atmospheric conditions remains unchanged over a long period of time.

3. The study, observe and predict the changes in climate is known as climatology.

2. How does the climate of a place affect the people living there?

Ans- The climate of a place affects the people living there in many way. Like-

- i. The clothes they wear
- ii. The food they eat.
- iii. The types of houses they live.

3. Name the five important factors that determine the climate of a place.

Ans- Five important factors that determine the climate of a place are-

- i. Distance from the Equator
- ii. Height above sea level

iii. Distance from the sea

iv. Winds

v. The amount of moisture in the air

Q1. Why do areas near the Equator receive more heat from the Sun, than those near the poles?

Ans - Areas near the Equator ~~and~~ receive more heat from the Sun because:-

i. Sun rays are vertical or direct at the Equator and slanting at the poles.

ii. The direct rays have to heat up a smaller area and slanting rays have to heat up a larger area of the Earth's surface.

Hence, places near the Equator get heated more than places near the poles.

5. Where are the following heat zones located?

Describe the general climate of each zone.

a. Frigid Zones; b. Temperate Zones; c. Tropical Zones

Ans-a Frigid Zones

i. Heat zone between Arctic Circle and the North Pole in Northern Hemisphere - North Frigid Zone, Climate - Very cold.

ii. Heat zone between Antarctic Circle and the South Pole in Southern Hemisphere - South Frigid Zone, Climate - very cold.

b. Temperate Zones -

i) Heat zone between Tropic of Cancer and the Arctic Circle in Northern Hemisphere - North

Temperate Zone, Climate - Mild (neither hot nor cold)

ii) Heat zone between Tropic of Capricorn and the Antarctic Circle in Southern Hemisphere - South Temperate Zone, Climate - Mild (neither hot nor cold)

○ Tropical Zone -

i) Heat zone between the Tropics of Cancer and Capricorn - Tropical or Torrid Zone, climate - Hot and wet

6. How do wind affect the climate of a place?

Ans - Winds flow in particular direction in different parts of the world. They may be -

i) Hot wind - Raise the Temperature of the lands over

which they blow.

ii) Cool wind - Blow from the Polar regions fall the Temperature over which they blow.

iii) Dry or warm wind - Blow from the sea are full of moisture bring rainfall to coastal areas.

7. How is the humidity in Chennai different from of Jaisalmer in the Thar Desert?

Ans - Difference in humidity in Chennai and Jaisalmer -

Chennai	Jaisalmer
i. It is a coastal area	i. It is in Thar Desert due to lack
ii. The air is laden with moisture and thus the humidity level is high.	ii. The air has less moisture thus of availability of water and humidity level is low.