

c. Answer the following questions

i) What is the difference between weather and climate?

Ans - Weather

i) Weather is the condition of the atmosphere at a particular place and time.

ii) Atmospheric conditions can change within a short period like minutes, hours, days, etc.

iii) The study of weather forecasting is known as meteorology.

Climate

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

ii) Atmospheric conditions remain unchanged over a long period of time.

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

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

Ans- The climate of a place affects the people living there in many ways. 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 level

iv) Winds

v) The amount of moisture in the air ✓

v) Why do areas near the Equator receive more heat from the sun, than those near the poles?

Ans - Areas near the Equator 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

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26/7/21

Delhi is further away from the Equator than Chennai. But summer in Chennai is not as hot as Delhi. What are the reasons for this?

Ans- Delhi is further away from the Equator than Chennai. But summer in Chennai is not as hot as in Delhi because Chennai is situated on the sea coast. This makes its climate moderate.

27/7/21



c. Answer the following questions.

5) Where are the following heat zones located? ~~Describe~~ 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

(rather hot than cold)

c) Tropical zone

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

e) How do winds affect the climate of a place?

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

i) Hot winds - Raise the temperature of the lands over which they blow.

ii) Cool winds - 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 rain fall to coastal areas.

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

Ans- Difference in humidity in Chennai and Jaisalmer -

Chennai :

i. It is a coastal area .

The air is laden with moisture and thus the  
ii. humidity level is high .

Jaisalmer :

i. It is in Thar Desert .

ii The air has less moisture due to lack of availability of water and thus humidity level is low .

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