

CW
28.7.21

Long question and answers

Q) Answer the following questions

1. What is the difference between weather and climate?

Ans:

Weather

Climate

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

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

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

- Atmospheric conditions remain unchanged over a long period of time.

- The study of weather forecasting is known as meteorology.

- They 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?

Q. 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.
- iv. Winds.
- v. The amount of moisture in the air.

4. Why do areas near the equator receive more heat from the sun, than those near the poles?

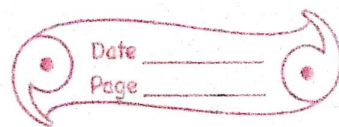
Ans: Areas near the equator receive more heat from the sun because:

- 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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c) Answer the following questions

5. Where are the following heat zones located? Describe the general climate of each zone.

a. Frigid zone b. Temperate zone c. Tropical zone

Ans: a) Frigid zone

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 zone

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 ~~cancer~~ capricorn and the Antarctic circle in Southern hemisphere - South temperate zone, Climate mild (Neither hot nor cold)

c) Tropical zone

i. Heat zone between the Tropic of cancer and capricorn - Tropical or torrid zone, Climate - Hot and wet

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

Ans: Winds flow in particular directions in different ~~place~~ 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 and warm winds - Blow from sea are full of moisture bring rainfall 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	Jaisalmer
i.	It is a coastal area	i. It is in Thar desert.
ii.	The air is laden with moisture and thus the humidity level is high.	ii. The air has less moisture due to lack of availability of water and thus humidity level is low.