

DATE: 25 SEP 2020

SUBJECT : SCIENCE

CHAPTER-8:

WEATHER, CLIMATE AND ANIMAL ADAPTATION

TOPIC-1:

CLIMATE

WEATHER

Climate: The long term weather pattern of a particular area measured over a period of 20-25 years is known as climate. For example, the climate of Kashmir is cold, Rajasthan desert is hot and dry throughout the year and coastal cities like Chennai and Mumbai are warm and humid.

- Climate of an area is responsible for the kinds of **plants and animals** found in that area. It also influences the **cloths we wear** and **food we eat**

•SEASON: A season is a period of time in a year that is marked by distinct weather patterns. Season occur as a result of a change in the earth's position with respect to the sun.

- The earth rotates about an imaginary axis called axis of rotation. Earth has revolutionary motion also. We experience day and night due to rotational motion and season due to revolutionary motion. Due to the revolutionary motion of the earth around the sun the two hemispheres experience winter and summer alternately at the same period of time. For example: In June, the northern hemisphere which is tilted towards the sun, receives more direct sunlight and experience summer but the southern hemisphere experiences winter. Similarly, in December, the southern hemisphere experiences summer and the northern hemisphere has winter.

- In India: Monsoon or rainy season lasts from June to September. But pre monsoon(summer) lasts from March to May and winter from January and February.

Factors affecting climate:

- (a) distance from the equator
- (b) height above sea level
- (c) distance from the sea and ocean currents
- (d) wind

Besides climate change is influenced by some other factors like solar radiation, volcanic eruption and human activities etc.

QUESTIONS: HOME ASSIGNMENT

1. What is do you understand by climate?
2. What is called season?
3. Why do we experience day & night ?
4. What is the cause of occurring different seasons?
5. When Northern hemisphere experiences summer, the southern hemisphere experiences winter. Give reason.
6. Name any four factors that affect climate. Explain each of them.
7. Differentiate between weather and climate.
8. How does distance from the equator influence the climate of a place?
9. Explain how the tilt of the earth causes seasons.
10. How does the sea affect climate?