www.ncrtsolutions.in **Key Notes**

Chapter - 7

Weather Climate and Adaptations to Climate

- Weather: Weather is the day-to-day condition of the atmosphere at a place influenced by factors like humidity, temperature, wind speed, etc.
- **Humidity** is the amount of water vapour present in the atmosphere and is measured by a hygrometer.
- Sun causes all weather changes.
- Climate: It is the average weather conditions at a specific place over a much longer period of time.

• Factor affecting climate:

- (i) Amount of sunshine
- (ii) Whether the region is hilly or a plain
- (iii) Distance from the sea
- (iv) Direction of prevailing winds from the sea side brings rain to coastal areas and dry weather to inland areas.
- (v) Ocean currents.
- (vi) Distance from the equator.
- **Adaptations to Climate:** The features and habits that help animals to live in a habitat are called adaptations.

Three regions are classified according to adaptation:

- (i) **Polar Regions**: Polar regions have extreme climate. Sun does not rise at poles for 6 months and does not set for the other 6 months.
- (ii) **Tropical Rainforest**: Have hot summers and plenty of rainfall. Days and nights are almost equal in length throughout the year.
- (iii) **Desert**: Have extreme climate. Receive less rainfall and large amount of sunlight.

Migration:

- (i) It is the mass movement of animals, mostly birds, from colder places to warmer regions to escape the cold, to breed or due to shortage of food.
- (ii) Birds are guided by the sun during the day and the stars at night.
- (iii) Example: Siberian crane comes to India from Siberia every year.