



## Chapter -1 SEASONS & TIME



### season

- ◆ The earth's revolution and the tilt of axis are the reasons for the occurrence of different seasons.
- ◆ The earth revolves around the sun in an elliptical orbit known as revolution.

### Tilt of Axis

- ◆ Axis of earth is titled at an angle of  $66\frac{1}{2}^{\circ}$  from the orbital plane.
- ◆ If it is measured from the vertical plane this would be  $23\frac{1}{2}^{\circ}$ .

### Parallelism of Earth's axis

- The earth maintains tilt throughout its revolution is known as parallelism of earth's axis.

### Apparent movement of the sun

- ◆ The sun shifts apparently between Tropic cancer ( $23\frac{1}{2}^{\circ}$  N) and Tropic of Capricorn ( $23\frac{1}{2}^{\circ}$  S) is known as apparent movement.
- ◆ The apparent movement of the sun due to the inclination axis is the reason for the occurrence of seasons.

### Different seasons

- Spring
- Summer
- Autumn
- Winter