



Chapter -1 SEASONS & TIME



Greenwich Mean Time (GMT)

- ◆ The zero degrees longitude is known as Greenwich meridian.
- ◆ Time is calculated worldwide based on the Greenwich line. Hence this line is also known as Prime meridian.
- ◆ The local time at the prime meridian is known as Greenwich mean time.

Standard Time

- Each country in the world consider the longitude that passes through their middle as the standard meridian.
- ◆ The standard meridian of India is $82\frac{1}{2}^{\circ}$ East longitude.
- ◆ The local time at the standard meridian is the standard time.

Indian Standard Time (IST)

- ◆ The local time along the $82\frac{1}{2}^{\circ}$ East longitude is Indian standard Time.
- ◆ Indian standard Time is 5 hours 30 minutes ahead from Greenwich mean time.

$$\text{IST} = \text{GMT} + 5 \text{ Hours } 30 \text{ Minutes}$$

$$\text{GMT} = \text{IST} - 5 \text{ hours } 30 \text{ Minutes}$$