

★ a) What is the true shape of Earth?

ans) The shape of the Earth is spheroid.

b) It is bulging at the equator and flattening at the poles.

c) This occurs due to rotation of Earth.

b) What is a globe?

ans) A globe is a three-dimensional model of the Earth in miniature. It is a true representation of the Earth. It follows the curvature of the Earth and also gives us the correct shape and size of continents and countries, and shows distances and directions without distortion.

c) What is the latitudinal value of Tropic of Cancer?

ans) The latitudinal value of Tropic of Cancer is  $23\frac{1}{2}^{\circ}$  N.

d) What are the three heat zones of the Earth?

ans) The three heat zones of the Earth are:



- i) Torrid Zone
- ii) Temperate zone
- iii) Frigid zone.

Q) Wh at area the parallels of latitude and meridians of longitude.

ans) Parallels of Latitude :-

- i) Arctic Circle ( $66\frac{1}{2}^{\circ}N$ )
- ii) Tropic of Cancer ( $23\frac{1}{2}^{\circ}N$ )
- iii) Equator ( $0^{\circ}$ )
- iv) Tropic of Capricorn ( $23\frac{1}{2}^{\circ}S$ )
- v) Antarctic Circle ( $66\frac{1}{2}^{\circ}S$ )

Meridians of longitude :-

- i) Prime Meridian ( $0^{\circ}$ )
- ii) International Date Line ( $180^{\circ}$ )

Q) Why does the Torrid Zone receive maximum amount of heat?

ans) The Torrid Zone lies between Tropic of Cancer and Tropic of Capricorn and The mid-day sun directly faces this area and these two latitudes receive maximum amount of heat. As, the Torrid Zone, lies ~~under~~ between these <sup>two</sup> latitudes it receives the maximum amount of heat.



Q) Why is it 5:30 pm in India when it is 12:00 noon in London?

ans) India and the United Kingdom lie on different longitudes. Each degree of longitude corresponds to a difference of four minutes. This is because the earth rotates  $360^\circ$  in 24 hours,  $1^\circ$  in 4 minutes. The standard meridian of India is  $82^\circ 30' E$ , and that of London is  $0^\circ$ . This means a difference of  $4 \text{ minutes} \times 82.5$   
 $= 330 \text{ minutes}$   
 $= 5.5 \text{ hours}$   
 $= 5 \text{ hr } 30 \text{ mins.}$

So when it is 12 noon in London, it is 5:30 pm in India.