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30/9/21

Earth in the Solar System

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A- Answer the following questions in brief.

1. What is the true shape of the Earth?

Ans. The true shape of earth is that the Earth is not a perfect sphere but flattened at the poles and therefore, its shape is referred to as a spheroid.

2. What is a globe?

Ans. A globe is a three-dimensional model of the Earth in miniature form. It is a true representation of the Earth. It is more accurate than a flat map as it follows the curvature of the Earth. It also gives the correct shape and size of continents and countries, and shows distances and directions with distortion.

3. What is the latitudinal value of Tropic of Cancer?

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

4. 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

5 - What are the parallels of latitude and meridians of longitude?

Ans: Parallels of latitude are imaginary lines that run horizontally across the surface of the Earth.
→ They measure the angular distance in degrees, minutes and seconds of a point north or south of the ~~Earth~~ Equator.

→ Some important lines are :-

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

→ The imaginary lines that run vertically across the surface of the Earth from the North Pole to the South Pole are called longitudes.

→ Some important lines of longitudes are :-

- i) Prime Meridian (0°).

6. Why does the Torrid Zone receive the maximum amount of heat?

Ans → The torrid zone lies between the Tropic of Cancer and the Tropic of Capricorn.

→ The Sun is exactly over the head once a year, on all the latitudes between the two tropics. The Sun rays falling exactly overhead gives out more heat than the slanting Sun rays.

→ Therefore, the Torrid Zone receives the maximum amount of heat.

7. Why it is 5:30 P.M in India and 12:00 noon in London?

Ans. It is because the Indian Standard Time (IST) is 5 hours and 30 minutes ahead of the Prime P. Meridian which passes through London.

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