

dt-30-9-21

EARTH IN THE SOLAR SYSTEM

1) Answer the Questions briefly.

Q) a) what is the true shape of Earth?

Ans The earth is not a perfect sphere. It is flattened at the poles. It's shape referred to as a spheroid.



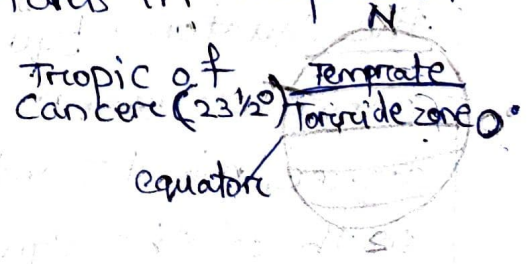
Q) b) What is a globe?

Ans Globe is a 3 dimensional model of the earth in miniature. It is true representation of the earth. It gives us the correct shape and size of the continents and countries and show the distance and direction without distortion. It is more accurate than a flat map.

Q) c) What is the latitudinal value of the tropic of Cancer?

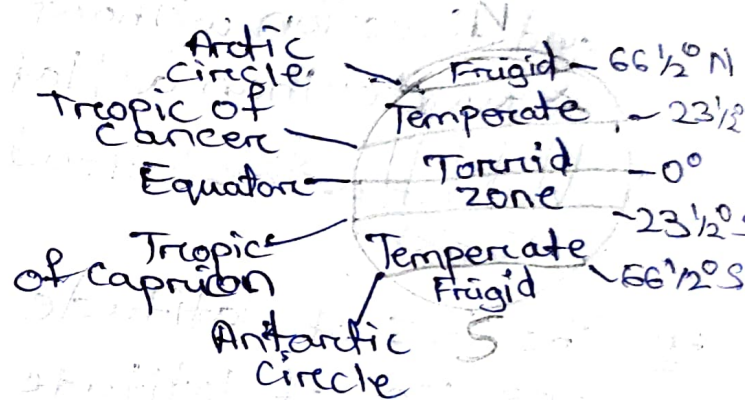
Ans The lines of latitude run parallel to equator. There are 180° of latitude on the whole, 90° in northern hemisphere and 90° in Southern hemisphere.

23½°N from equator is the latitudinal value of the tropic of Cancer. In northern hemisphere Torrid zone ends and temperate zone starts in tropic of Cancer.



Q) d) What are the three heat zone of the earth?

Ans Based on the solar amount received each hemisphere is divide into three temperature of heat zone. They are Torrid zone, temperate zone, frigid zone. Torrid zone is known as tropical zone. It get's direct rays of the sun. (between  $23\frac{1}{2}^{\circ}$ S to  $23\frac{1}{2}^{\circ}$ N). The temperate zone lies between tropic of cancer to Arctic circle in north and tropic of capricorn to Antarctic Circle in south. It gets inclined ray of sun so it moderately heated. The frigid zone are on the polar region and get least solar energy. So they are very cold.



Q) e) What are the parallels of latitude and meridians of longitude?

Ans Parallels of latitudes are the imaginary line that runs horizontally towards north and south from the equator. Equator is the  $0^{\circ}$  latitude. The parallels measure the angular distance a degree, minutes and second of a point north or south of the equator.

Lines of longitude or meridian are the imaginary lines that run vertically



across the surface of the earth from north pole to south pole. They are the angular distance in degrees, minutes and second of a point east or west of the Prime Meridian.

f) why does the Torrid zone receive the maximum amount of heat?

Ans The sun appears to move between the tropic of cancer and the tropic of Capricorn as these parallels get the direct rays of the sun. This is the hottest zone. This zone is known as Torrid zone or tropical zone.

g) why is it 5:30 pm in India and 12:00 noon in London?

Ans when it is 5:30 pm in India there is 12:00 noon in London because the Indian Standard time (IST) is five hours and thirty-minutes ahead of the prime meridian which passes through London.

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