

29-09-21 HW

Revision = 2



EARTH IN THE SOLAR SYSTEM

Ch 1 & 2

3 marks

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

The earth is a geoid in shape.

* The blue is water, which covers about 71 per cent of Earth's surface.

* The white swirls are clouds. The areas of brown, yellow and green are land.

* The areas of white are ice and snow.

* ~~The areas of~~

(b) what is the globe?

A globe is a three dimensional model of earth in miniature. It is more accurate than flat map. Globes are used plan long distance sea and air routes called great circle routes.

(c) what is the latitudinal value of the Tropic of Cancer?

The tropic of cancer ($23^{\circ}30'N$) divides the country into almost two equal parts. 23° is the latitudinal value of tropic of

Cancer. The mainland of India extends between latitudes $8^{\circ}4' N$ and $37^{\circ}6' N$.

(d) what are the three heat zones of the Earth

Ans → The three heat zones are: →

- i) Torrid Zone. This zone spans across the equator. The torrid zone is the hottest part of the world.
- ii) Frigid Zone → The Arctic circle demarcates the northern frigid zone. This zone is very cold.
- iii) Temperate zone → The Antarctic circle separates South frigid zone from the temperate zone. The temperate zone is neither very hot nor very cold.

(e) what are the parallels of latitude and meridians of longitude?

(*) Parallels of latitude are circles which are parallel from the equator to the poles whereas the lines of reference running from the North pole to South pole are called meridians of longitude. The meridian which passes through Greenwich is also as Prime Meridian.

Q: - why does the Torrid zone receive the maximum amount of heat?

A: → The torrid zone receives the maximum amount of heat throughout the year because the rays of the sun fall vertically on this region. This is located between the Tropic of Cancer and Tropic of Capricorn in $23\frac{1}{2}^{\circ}$ N to $23\frac{1}{2}^{\circ}$ S.

Q: Why is it 5:30 PM in India and 12:00 in London?

A: It is 5:30 P.M. in India and 12:00 noon in London because India is east of London. Places east of the Greenwich Meridian experience day or sunrise earlier than the places lying west of the Prime Meridian.