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1. Answer the following questions briefly:

(a) What is the true shape of the earth?

Ans:

The true shape of the earth is a sphere flattened at the poles. Such a shape is called a geoid.

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(b) What is a globe?

Ans:

A globe is an exact miniature model of the earth. It shows the earth in its actual shape, with all continents, oceans, etc marked at their proper places.

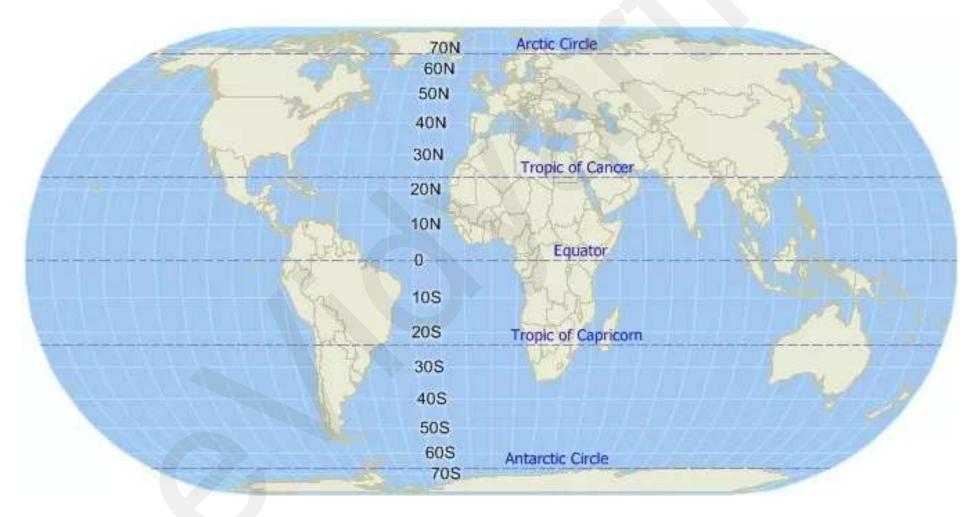
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(c) What is the latitudinal value of the Tropic of Cancer?

Ans:

The latitudinal value of the Tropic of Cancer is 23 1/2° N.

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

Ans:

The heat zones of the Earth are:

- 1. the Torrid Zone,
- 2. the Temperate Zones and
- 3. the Frigid Zones.

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(e) What are parallels of latitude and meridians of longitude?

Ans: All the imaginary circles parallel to the Equator are called parallels of latitudes.

All the imaginary circles perpendicular to the Equator are called meridians of longitudes

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

Ans: The mid-day sun directly faces the area between the Tropics of Cancer and Capricorn. So the heat received is maximum at these latitudes. These latitudes fall under the Torrid Zone.

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(g) Why is it 5.30 p.m. in India when it is 12.00 noon in London?

Ans: India and the United Kingdom lie on different longitudes. Each degree of longitudes corresponds to a difference of four minutes. This is because the earth rotates 360° in 24 hours, 1° in 4 minutes. The standard meridian of India is 82° 30′ E, and that of London is 0°. This means a difference of 4 minutes x 82.5 = 330 minutes = 5.5 hours. So when it is 12 noon in London, it is 5.30 p.m. in India.

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2. Tick the correct answer:

(a) The value of the prime meridian is

(i) 90°

(ii) 0°

(iii) 60°

Ans: (ii) 0°

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(b) The frigid zone lies near

- (i) the Poles
- (ii) the Equator
- (iii) the Tropic of Cancer

Ans: (i) the Poles

(c) The total number of longitudes are

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- (i) 360
- (ii) 180
- (iii) 90

Ans: (ii) 180

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(d) The Antarctic Circle is located in

(i) the Northern Hemisphere (ii)the Southern Hemisphere (iii)the Eastern Hemisphere

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Ans:

(ii)the Southern Hemisphere

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(e) Grid is a network of

- (i) parallels of latitudes and meridians of longitudes
- (ii) the Tropic of Cancer and the Tropic of Capricorn
- (iii) the North Pole and the South Pole

Ans: (i) parallels of latitudes and meridians of longitudes

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3. Fill in the blanks.

- (a) The Tropic of Capricorn is located at.....
- (b) The Standard Meridian of India is.....
- (c) The 0° Meridian is also known as.....

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- (d) The distance between the longitudes decreases towards
- (e) The Arctic Circle is located in the.....

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Ans:

- (a) 23½° S
- (b) 82 ½° N
- (c) Prime meridian
- (d) Prime meridian
- (e) northern hemisphere