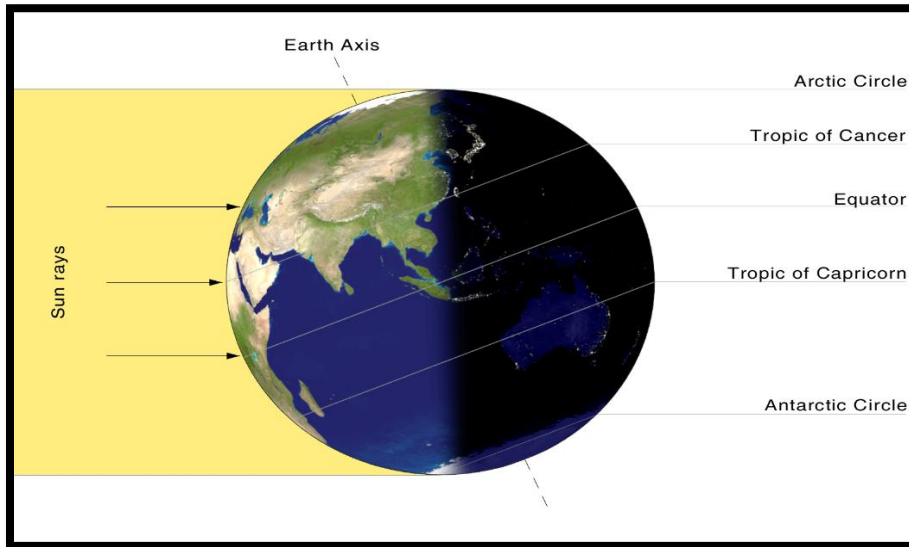




years.

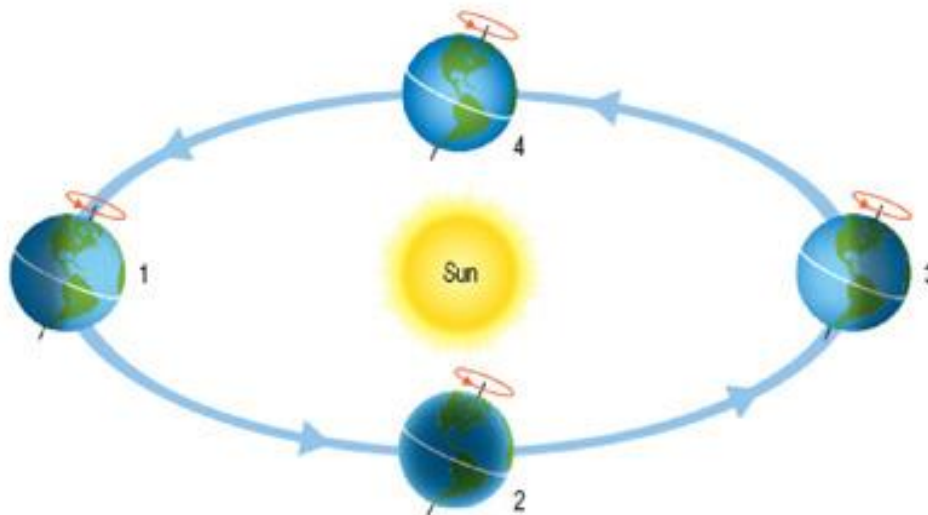
- This surplus day is added to the month of February.
- Thus every fourth year, February of 29 days instead of 28 days. Such a year with 366 days is called a leap year.

18 Explain circle of illumination with the help of a diagram: -



- The axis of the earth which is an imaginary line, makes an angle of  $66\frac{1}{2}^\circ$  with its orbital plane.
- Due to the spherical shape of the earth, only half of it gets light from the sun at a time.
- The portion facing the sun experiences day while the other half away from the sun experiences night.
- The circle that divides the day from night on the globe is called the circle of illumination.

V Observe the diagram and answer the following: -



19 Identify the Earth's position (1) and mention the date.  
**Summer Solstice. 21<sup>st</sup> June.**

20 Identify the Earth's position (3) and mention the date.  
**Winter Solstice. 22<sup>nd</sup> December.**

21	The above diagram shows the rotation of the Earth. (True or False) <b>False.</b>
22	Name the four seasons in an year. <b>Summer, Winter, Spring and Autumn.</b>
23	On which dates, do the sun ray's fall directly on the Equator? What is it called? <b>23<sup>rd</sup> September and 21<sup>st</sup> March. Equinox.</b>
24	Days and nights are caused due to <b>rotation</b> and changes in the seasons due to <b>revolution</b> .