EDUGROSS

WISDOMISING KNOWLEDGE

NCERT Solutions For Class 6 Social Science Geography

## Chapter 3 - Motions of the Earth

- 1. Answer the following questions briefly.
- (a) What is the angle of inclination of the earth's axis with its orbital plane?
- (b) Define rotation and revolution.
- (c) What is a leap year?
- (d) Differentiate between the Summer and Winter Solstice.
- (e) What is an equinox?
- (f) Why does the Southern Hemisphere experience Winter and Summer Solstice in different times than that of the Northern Hemisphere?

(g) Why do the poles experience about six months day and six months night?

Answer 1.

- a. The angle of inclination of the earth's axis with its orbital plane is  $66\frac{1}{2}^{\circ}$ .
- b. The movement of the earth on its axis is called rotation. The movement of the earth around the sun in a fixed path or orbit is called Revolution.
- c. Every fourth year, February is of 29 days instead of 28 days. Such a year with 366 days is called a leap year.
- d. **Summer Solstice** When the Southern hemisphere experiences winter season and there is summer in the northern hemisphere. At that point in time, the position of the earth on 21st June is called the Summer Solstice.

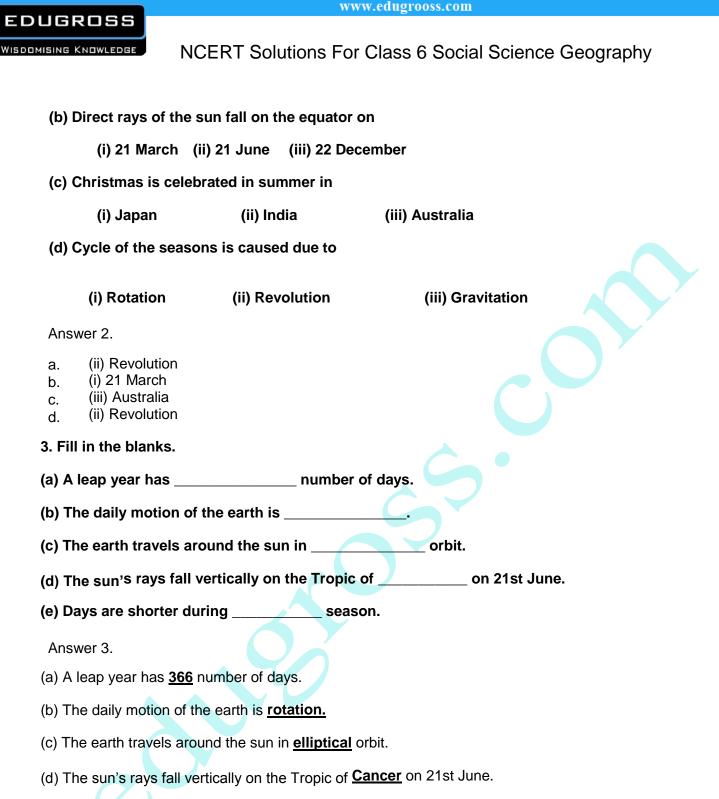
**Winter Solstice**- When the Southern hemisphere experiences summer season and reverse occurs at the Northern hemisphere. At that point in time, the position of the earth on 22nd December is called the Summer Solstice.

- e. On 21st March and September 23rd, direct rays of the sun fall on the equator. At this position, neither of the poles is tilted towards the sun. Therefore, the whole earth experiences equal days and equal nights. This is called an equinox.
- f. The Earth is always revolving and it is divided into two hemispheres. The part of the earth which faces the sun experiences summer and the part away from the sun experiences winter. Therefore, Southern Hemisphere experience Winter and Summer Solstice at different times than that of the Northern Hemisphere.
- g. The Poles experience 6 months day and six months nights due to the inclination of the earth about its own axis. This inclination keeps one pole towards the sun and another pole away from the sun for 6 months each. Therefore, this condition occurs.

## 2. Tick the correct answers.

(a) The movement of the earth around the sun is known as

(i) Rotation (ii) Revolution (iii) Inclination



(e) Days are shorter during winter season.