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# Class:6 (Social Science) Reeta Dubey Date: 05/07/2020

# 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 solstice 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? Answers: (a) The angle of inclination of the earth's axis with its orbital plane is 66'/a.
- (b) The movement of the earth on its axis is known as rotation.
- 'Revolution. The movement of the earth around the sun in a fixed path or orbit is known as revolution.
- (c) The year in which Februaiy is of 29 days instead of 28 days is called a leap year. Thus a leap year is of 366 days instead of 365 days.
- (d) Difference between summer solstice and winter solstice

# In the Northern Hemisphere the longest day and the shortest night occur on 21st June. At this time in the Southern Hemisphere it occurs the shortest day and the longest night. This position of the earth is called summer solstice. In the Northern Hemisphere the shortest day and the longest night occur on 22nd December. At this time in the Southern Hemisphere it occurs the longest day and the shortest night. This position of the earth is known as winter 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 entire earth experiences equal days and equal nights. This phenomenon is called an equinox.
- (f) Since it is winter in the Southern Hemisphere when it is summer in the Northern Hemisphere, therefore the position of the earth 'which is called the Winter Solstice in one Hemisphere is the Summer Solstice in the other, and vice-versa.

### **HOME WORK (WRITE & LEARN)**

(g) The axis of the earth is tilted, due to which the sun continuously either
shines or cannot be seen for a long time here. Although the earth rotates and day
changes into night and night into day at other places, but the poles remain under
the same stage for a much longer time due to the tilt.

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<i>Z</i> .	TICK THE	correct	answer

(a)	The	movement	of the	earth	around	the	sun	1S	known	as
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- (i) Rotation (ii) Revolution (iii) Inclination.
- (b) Direct rays of the sun fall on the equator on
- (i) 21 March (ii) 21 June (iii) 22 December.
- (c) Christmas is celebrated in summer in
- (i) Japan (ii) India (iii) Australia
- (d) The cycle of the seasons is caused due to
- (i) Rotation (ii) Revolution (iii) Gravitation

- 3. Fill in the blanks.
- (a) A leap year has ..... number of days.
- (b) The daily motion of the earth is ......
- (c)The earth travels around the sun in.....
- (d) The sun's rays fall vertically on the Tropice of...... on 21st June.
- (e)Days are shorter during .....

Answer: (a) 366, (b) rotation, (c) elliptical, (d) cancer, (e) winter.