

**G.D.GOENKA PUBLIC SCHOOL**

**Subject: S.St**

**(Geography)**

**Topic: Motions of the Earth**

**Date:02-11-2021 (Tuesday)**

**Grade VI**

**This material is not to be printed.**

**BOOKWORK**

What will happen,if

1. the earth stops rotating and revolving?

Ans: If the earth stops rotating and revolving there will be no phenomenon of day and night and no change of seasons.

2. the earth starts rotating at a slower speed.

Ans: If the earth starts rotating at a slower speed then there will be longer days and nights.

3. the earth starts rotating at a faster speed.

Ans: If the earth starts rotating at a faster speed then there will be shorter days and nights.

4. the earth's axis becomes vertical.

Ans: If the earth's axis becomes vertical,then there will be no variation in the length of days and nights throughout the year.

G. Give very short answers for the following questions.

1. What is the daily motion of the earth called?

Ans: The daily motion of the earth is called rotation.

2. What is the cause of the bulging of the earth at the equator?

Ans: The bulging of the earth at the equator is caused due to rotation.

3. What is the cause of day and night?

**Ans: The cause of day and night is rotation.**

**4. What is the speed of the earth's rotation at the North Pole?**

**Ans: The speed of the earth's rotation at the North Pole is Zero.**

**5. What is the length of daylight at the equator?**

**Ans: The length of daylight at the equator is of 12 hours.**

**6. What is the annual motion of the earth called?**

**Ans: The annual motion of the earth is called revolution.**

**7. How many days are there in a leap year?**

**Ans: There are 366 days in a leap year.**

**8. When is the New Year Day celebrated according to the Indian National Calendar?**

**Ans :According to the Indian National Calendar 21 March is celebrated as the New Year Day.**

**H. Give short answers for the following questions.**

**1. What is the importance of the inclination of the earth's axis?**

**Ans: The inclination of the earth's axis results in the variation in the length of days and nights throughout the year. Due to this inclination, the Northern Hemisphere remains inclined towards the sun for half of the year and Southern Hemisphere during the other half of the year.**

**2. Why are days longer than nights during the summer?**

**Ans: During summer, in the Northern Hemisphere, the North Pole is inclined towards the sun, due to which a large portion of the Northern Hemisphere receives more heat and light. That is why days are longer than nights in summer.**

**3. Why do we have a leap year?**

**Ans: The earth takes 365 days, 5 hours, 48 minutes and 56 seconds to make one complete revolution around the sun. But for our convenience, we count only 365 days in a year. The balance of about 6 hours is computed to one extra day or a leap day in the month of February after every four years. Thus we have a leap year.**

**4. What are the factors responsible for the change of seasons?**

**Ans: The factors responsible for the change of seasons are as follows:**

- 1. The rotation of the earth on its axis.**
- 2. The revolution of the earth around the sun.**
- 3. The inclination of the earth's axis.**