

15.6.2020

Chapter-3

The movements of the Earth.



Date

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(A) Answer the following questions:

1. What is meant by the axis of the Earth? What is special about the Earth's axis?

Ans:- The imaginary line on which the Earth rotates from west to east is called the axis of the Earth.

The axis of the Earth is not vertical but slightly inclined or tilted.

2. Explain how days and nights are caused.

Ans:- The most significant effect of the rotation of the Earth is the formation of day and night. As the Earth spins, the portion which faces the sun experiences day, while the side opposite to this, which is in darkness has night.

3. State two other effects of rotation of the Earth, apart from day and night.

Ans:- i) Change in the direction of flow of winds and ocean waters.

ii) Tides.

4. What are the two factors that cause seasons?

Ans:- The two factors that cause seasons are -

- i) The tilt of the Earth's axis.
- ii) The revolving of the Earth around the Sun.

5. With reference to the June position of the Earth, state:

i) The hemisphere which receives direct rays of the Sun and why?

→ Northern Hemisphere receives direct rays of the Sun because North Pole is inclined towards the Sun.

ii) the length of days → Days are longer in Northern Hemisphere and shorter in Southern Hemisphere.

iii) Season experienced → Summer in Northern Hemisphere and winter in Southern Hemisphere.

(B) Choose the correct answer.

1. The axis of the Earth is inclined.
2. During summer, the sun rises early and sets late.
3. Changes in the direction of flow of winds and ocean waters is caused by rotation.
4. In a leap year, there are 366 days.
5. The Sun's rays are direct during summer and inclined during winter.
6. Tides are caused due to the rotation of the Earth.

(C) Think and Answer!

1. The Sun rises in the east and sets in the west.
→ Because the Earth rotates from west to east.
2. We experience day and night.
→ Due to the rotation of the Earth.

3. We experience seasons.

→ Due to the revolution of the Earth and tilt of the Earth's axis.

⑤ Matching -

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|--------------------|----------------|
| 1. Northern Summer | → a) September |
| 2. Southern Summer | → b) September |
| 3. Southern Autumn | → c) June |
| 4. Northern Autumn | → d) March |
| 5. Southern Spring | → e) December |