

Chapter - 12 | Earth, Moon, and the Sun

QUIZ-01

1. What is the primary reason the Sun appears to move across the sky?
 A. The Sun rotates on its axis
 B. The Earth rotates on its axis
 C. The Sun moves around the Earth
 D. The Moon reflects light from the Sun (B)

Explanation : The Sun appears to move due to the Earth's rotation from west to east, causing the day-night cycle.

2. What direction does the Earth rotate when viewed from the North Pole?
 A. Clockwise
 B. Anti-clockwise
 C. East to West
 D. West to East (B)

Explanation : The Earth rotates anti-clockwise on its axis when viewed from the North Pole.

3. Which of the following occurs when the Earth completes one full rotation?
 A. The Moon changes its position
 B. Day and night cycle occurs
 C. The Sun rises in the East
 D. The Earth orbits the Sun (B)

Explanation : The Earth's rotation causes the cycle of day and night by alternately facing the Sun.

4. What happens to the stars in the sky as Earth rotates?
 A. They move from west to east
 B. They remain stationary
 C. They move from east to west
 D. They fall (C)

Explanation : As the Earth rotates, stars appear to move from east to west, creating a cycle of visibility.

5. What is the position of the North Pole during the summer solstice in the Northern Hemisphere?
 A. Tilted away from the Sun
 B. Tilted towards the Sun
 C. Perpendicular to the Sun
 D. In the dark (B)

Explanation : During the summer solstice, the Northern Hemisphere is tilted towards the Sun, resulting in longer days.

6. What is the effect of the tilt of Earth's axis on the seasons?
 A. It causes the Sun to move in the sky
 B. It leads to variations in the length of days and nights
 C. It causes the Earth to spin faster
 D. It changes the Earth's orbit around the Sun (B)

Explanation : The axial tilt creates different amounts of sunlight during different times of the year, leading to seasons.

7. Which of the following causes a lunar eclipse?
 A. The Earth comes between the Moon and the Sun
 B. The Moon comes between the Earth and the Sun
 C. The Sun is blocked by the Earth
 D. The Earth rotates on its axis (A)

Explanation : A lunar eclipse occurs when the Earth's shadow falls on the Moon.

8. What is a solar eclipse?
 A. When the Moon passes between the Earth and the Sun
 B. When the Earth moves between the Moon and the Sun
 C. When the Sun passes between the Moon and Earth
 D. When the Earth blocks the Sun's light (A)

Explanation : A solar eclipse occurs when the Moon obstructs the Sun's light from reaching the Earth.

9. Which of the following can be seen during a total solar eclipse?
 A. Only the Sun's core
 B. A complete ring around the Moon
 C. The corona of the Sun
 D. The stars in the sky (C)

Explanation : During a total solar eclipse, the Moon completely covers the Sun, allowing us to see the Sun's outer atmosphere or corona.

10. Which of the following is a correct statement about Earth's revolution?
 A. It causes day and night
 B. It occurs in 365 days and 6 hours
 C. It makes the Sun rise in the East
 D. It causes seasons to change every 12 hours (B)

Explanation : The Earth revolves around the Sun in approximately 365 days and 6 hours, which gives us a year.