

CHAPTER-8 | Measurement of Time and Motion

QUIZ
PART-01

1. The day-night cycle is caused by:

- A. Revolution of Earth
- B. Rotation of Earth
- C. Moon's rotation
- D. Sun's movement (B)

Explanation: Earth's rotation causes day and night.

2. The changing shape of the Moon is called:

- A. Eclipse
- B. Phases of Moon
- C. Rotation
- D. Orbit (B)

Explanation: Moon appears in different phases.

3. A sundial measures time using:

- A. Water
- B. Sand
- C. Shadow of the Sun
- D. Candle (C)

Explanation: Time is based on shadow position.

4. A water clock measures time by:

- A. Burning wax
- B. Flow of water
- C. Sunlight
- D. Sand (B)

Explanation: Water flow indicates passage of time.

5. An hourglass measures time using:

- A. Water
- B. Sand
- C. Shadow
- D. Wax (B)

Explanation: Sand flows between two bulbs.

6. Candle clocks measure time by:

- A. Flame colour
- B. Wax melting with markings
- C. Smoke
- D. Heat (B)

Explanation: Markings show time as candle burns.

7. The pendulum clock was invented in:

- A. 1500
- B. 1600s
- C. 1700s
- D. 1800s (B)

Explanation: Invented in 17th century.

8. The largest stone sundial is located in:

- A. Delhi
- B. Jaipur
- C. Mumbai
- D. Agra (B)

Explanation: Samrat Yantra at Jantar Mantar, Jaipur.

9. Mechanical clocks improved because:

- A. Travel increased
- B. Sun stopped shining
- C. Water clocks broke
- D. Moon changed (A)

Explanation: Accurate time became necessary.

10. One mark on candle clock represented:

- A. 1 min
- B. 5 min
- C. 10 min
- D. 60 min (C)

Explanation: 1 mark = 10 minutes.