

CHAPTER-8 | Measurement of Time and Motion

QUIZ
PART-02

1. A simple pendulum consists of:

- A. Spring
- B. Bob and thread
- C. Rod only
- D. Wheel (B)

Explanation: It has a bob suspended by thread.

2. The resting position of pendulum is called:

- A. Extreme position
- B. Mean position
- C. Fixed point
- D. Oscillation (B)

Explanation: At rest, bob is at mean position.

3. One complete to-and-fro motion is called:

- A. Vibration
- B. Oscillation
- C. Rotation
- D. Revolution (B)

Explanation: One full swing is oscillation.

4. Time taken for one oscillation is called:

- A. Speed
- B. Period
- C. Time period
- D. Interval (C)

Explanation: Time for one oscillation.

5. Time period depends on:

- A. Bob mass
- B. Length of pendulum
- C. Colour
- D. Shape (B)

Explanation: Depends on length only.

6. SI unit of time is:

- A. Minute
- B. Hour
- C. Second
- D. Day (C)

Explanation: SI unit is second (s).

7. 60 seconds equals:

- A. 1 hour
- B. 1 minute
- C. 10 minutes
- D. 100 seconds (B)

Explanation: $60\text{ s} = 1\text{ min.}$

8. Pendulum motion is:

- A. Random
- B. Periodic
- C. Irregular
- D. Linear (B)

Explanation: It repeats at equal intervals.

9. Quartz clocks use:

- A. Water
- B. Sand
- C. Crystal vibrations
- D. Shadow (C)

Explanation: Based on quartz vibrations.

10. Smallest time interval measured by wall clock is:

- A. 1 minute
- B. 1 hour
- C. 1 second
- D. 10 seconds (C)

Explanation: Smallest division is one second.