

SECTION A: This section contains:

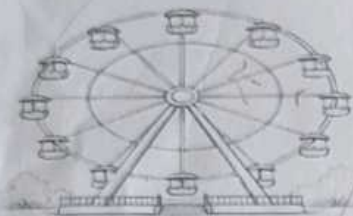
Multiple Choice Questions (MCQs)

- Fill in the Blanks
- True or False
- Assertion–Reason Questions
- Match the Columns

MCQs ($1/2 \times 2 = 1$ Mark)

1. **Image:** A wheel of a Ferris wheel keeps returning to its starting position after equal intervals of time. This is an example of:

- A. Random motion B. Periodic motion ✓
C. Non-uniform motion D. Rectilinear motion



2. The time taken by a pendulum to complete one oscillation is called a) frequency b) time period c) amplitude d) speed

Fill in the Blanks ($1/2 \times 2 = 1$ Marks)

3. The SI unit of time is _____
4. The formula to calculate speed is _____

True or False ($1/2 \times 2 = 1$ Mark)

5. Speed is the distance travelled by an object in one unit of time _____
6. A bus moving through city traffic is an example of uniform motion _____

7. Match column A with column B (1 mark).

Column A	Column B
a) Odometer	1. Vehicle travelled a distance 50 km
b) Time	2. 20 km/ 4km/h
c) Non-uniform motion	3. Runner in a race
d) Uniform motion	4. Car moving at constant 60 km/h

Options: a) A-1, B-2, C-3, D-4 b) A-2, B-1, C-4, D-3 c) A-4, B-3, C-1, D-2 d) A-3, B-4, C-2, D-1

Assertion and Reason ($1 \times 2 = 2$ Marks)

8. **Assertion (A):** A car moving at a constant speed covers equal distances in equal intervals of time. **Reason (R):** Motion in which an object covers unequal distances in equal intervals of time is called uniform motion. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.