

P H Y S I C S

Class - 9

Chapter - Motion

Speed, velocity, acceleration

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Multiple Choice questions :

- 1 Which of the following physical quantities has the SI unit of metres per second square?
(a) Distance (b) Speed (c) Velocity (d) Acceleration

- 2 This is a vector quantity.
(a) Speed (b) Acceleration (c) Velocity (d) Both (b) and (c).

- 3 A boy is sitting on a merry-go-round which is moving with a constant speed of 10ms^{-1} . This means that the boy is
(a) At rest (b) Moving with no acceleration
(c) In accelerated motion (d) Moving with uniform velocity

- 4 Which of the following statements is correct regarding velocity and speed of a moving body?
(a) Velocity of a moving body is always higher than its speed.
(b) Speed of a moving body is always higher than its velocity.
(c) Speed of a moving body is its velocity in a given direction.
(d) Velocity of a moving body is its speed in a given direction.

- 5 This instrument is used to measure the distance travelled by a vehicle.
(a) Speedometer (b) Odometer (c) Hygrometer (d) Barometer