

CLASS-IX PHYSICS
MOTION

Assignment-2

MULTIPLE CHOICE QUESTION - 2.1

1. When a body covers equal distance in equal intervals of time, its motion is said to be :
(A) Non-uniform (B) Uniform (C) Accelerated (D) Back and forth
2. The motion along a straight line is called :
(A) Vibratory (B) Stationary (C) Circular (D) Linear
3. A particle is traveling with a constant speed. This means :
(A) Its position remains constant as time passes.
(B) It covers equal distance in equal interval of time
(C) Its acceleration is zero
(D) It does not change its direction of motion
4. The rate of change of displacement is :
(A) Speed (B) Velocity (C) Acceleration (D) Retardation
5. Speed is never :
(A) zero (B) Fraction (C) Negative (D) Positive
6. The motion of a body covering different distances in same intervals of time is said to be :
(A) Zig - Zag (B) Fast (C) Slow (D) Variable
7. Unit of velocity is :
(A) ms (B) ms^{-1} (C) ms^2 (D) none of these
8. A speed :
(A) is always positive (B) is always negative
(C) may be positive as well as negative (D) is neither zero nor negative
9. A particle moves with a uniform velocity :
(A) The particle must be at rest (B) The particle moves along a curved path
(C) The particle moves along a circle (D) The particle moves along a straight line
10. A quantity has value of -6.0 ms^{-1} . It may be the :
(A) Speed of a particle (B) Velocity of a particle
(C) Position of a particle (D) Displacement of a particle
11. In 10 minutes, a car with speed of 60 kmh^{-1} travels a distance of :
(A) 6 km (B) 600 km (C) 10 km (D) 7 km
12. A particle covers equal distances in equal intervals of times, it is said to be moving with uniform :
(A) Speed (B) Velocity (C) Acceleration (D) Retardation
13. The SI unit of the average velocity is :
(A) m/s (B) km/s (C) cm/s (D) mm/s
14. Mere per second is not the unit of :
(A) Speed (B) Velocity (C) Displacement (D) None of them

SUBJECTIVE QUESTION - 2.2

1. What is the S.I. unit of velocity ?
2. Which is vector, speed or velocity ?
3. Give the name of the physical quantity that corresponds to the rate of change of displacement ?
4. Apart from velocity name two other quantities which are vector ?
5. When is a body said to have uniform velocity ?
6. A particle is moving with uniform velocity. it is necessary moving with uniform speed ? Is it necessary that it is moving along a straight line ?
7. Write difference between speed and velocity.
8. A train covers 80 km in 2 hours. Find its average speed in kmh^{-1} , m min^{-1} and ms^{-1} .
9. Which one of the following have maximum and the least average speed ?
 - (i) Sanjeev moving with 12 kmh^{-1}
 - (ii) Rajeev running with 5 ms^{-1}
 - (iii) Kabir moving with 150 m min^{-1} .
10. (a) Uniform motion (b) Non uniform motion
11. (a) Average speed (b) Velocity