

Success Key Worksheet

Std: Class 9 (Eng.& Semi)

Ch.1 Law of Motion
(Daily Practice Paper)

Time: 1 Hr.

Date:

Subject: Science -1

Max Marks: 25

Q.1) Fill in the blanks:

5

- 1) Newton's first law explains the phenomenon of _____.
- 2) The magnitude of velocity and _____ will be equal if motion is along a straight path.
- 3) While sharpening a knife, sparks fly off _____ from the grinding stone.
- 4) A _____ force acting on an object brings it in motion.
- 5) The momentum of a body of mass 5 kg is 10 kg m/s, then its velocity will be _____.

Q.2) State 'True' or 'False', if 'False' correct it:

5

- 1) The distance travelled in a particular direction by an object in unit time is called its speed.
- 2) An unbalanced force acting on an object brings it in motion.
- 3) Acceleration is always positive.
- 4) Average speed of a moving body can be zero.
- 5) Negative acceleration is also called deceleration.

Q.3) Choose the correct alternative and rewrite the following:

15

- 1) If a particle moves with a constant speed, the distance time graph is a
(a) straight line (b) circle (c) polygon (d) curved line
- 2) Newton's first law explains the phenomenon of _____.
(a) momentum (b) force (c) motion (d) inertia
- 3) When body is at rest, at the starting of motion, its initial velocity (u) is _____.
(a) one (b) infinity (c) zero (d) less than zero
- 4) When the velocity of an object increases, the acceleration is _____.
(a) negative (b) positive (c) zero (d) either negative or positive
- 5) _____ is a quantitative measures of inertia of body.
(a) Volume (b) Mass (c) Density (d) Acceleration
- 6) 1 newton = dynes.
(a) 3×10^{-8} (b) 10^7 (c) 10^5 (d) 10^{-5}
- 7) If force acting on a body is doubled, acceleration with which it moves is _____.
(a) constant (b) doubled (c) two-fold (d) none of these
- 8) The speed of the sound in dry air is m/s.
(a) 343.2 (b) 268.1 (c) 62.37 (d) 3×10^{-8}

- 9) Force is linked with _____.
- (a) velocity (b) position of rest
(c) inertia (d) acceleration
- 10) Force which produces acceleration in body is equal to rate of change of _____.
- (a) velocity (b) acceleration
(c) density (d) momentum
- 11) Which of Newton's Laws describes the amount of force applied to accelerate an object's mass?
- (a) First Law (b) Second Law
(c) Third Law (d) Fourth Law
- 12) If a body is moving in a straight line then net force acting on it is _____.
- (a) constant (b) increasing
(c) decreasing (d) zero
- 13) The _____ between two objects are always equal and opposite.
- (a) forces (b) speed (c) momentum (d) acceleration
- 14) The rate of change of is called acceleration.
- (a) speed (b) distance
(c) displacement (d) velocity
- 15) If a bus takes a sharp turn then passengers inside moves outward due to
- (a) force (b) inertia
(c) normal force (d) friction

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DPP(Answer key)

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Q.1) Fill in the blanks:

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- 1)Ans. inertia.
- 2)Ans. speed
- 3)Ans. tangentially
- 4)Ans. 5 m/s.
- 5)Ans. 2 m/s

Q.2) State 'True' or 'False', if 'False' correct it:

5

- 1)Ans. False: The distance travelled by an object per unit time is called its speed.
- 2)Ans. True
- 3)Ans. False
Acceleration can be positive, negative or zero.
- 4)Ans. False. Average speed of a moving body can never be zero.
- 5)Ans. True

Q.3) Choose the correct alternative and rewrite the following:

15

- 1)Ans. (a) straight line
- 2)Ans. (d) inertia
- 3)Ans. (c) zero
- 4)Ans. (b) positive
- 5)Ans. (b) Mass
- 6)Ans. (c) 10^5
- 7)Ans. (b) doubled
- 8)Ans. (a) 343.2
- 9)Ans. (d) acceleration
- 10)Ans. (d) momentum
- 11)Ans. (b) Second Law
- 12)Ans. (d) zero
- 13)Ans. (a) forces
- 14)Ans. (d) velocity
- 15)Ans. (b) inertia