9 Lecture - PHY101

Important Mcqs

Which of the following is a type of collision?

a) Elastic collision

b) Inelastic collision

c) Both A and B

d) None of the above

Answer: c) Both A and B

In an elastic collision, which of the following is conserved?

a) Momentum

b) Kinetic energy

c) Both A and B

d) None of the above

Answer: c) Both A and B

In an inelastic collision, which of the following is conserved?

a) Momentum

b) Kinetic energy

c) Both A and B

d) None of the above

Answer: a) Momentum

Which of the following statements is true regarding an elastic collision?

a) The objects stick together after the collision.

b) The kinetic energy is conserved.

c) The momentum is conserved.

d) None of the above

Answer: c) The momentum is conserved.

Which of the following statements is true regarding an inelastic collision?

a) The objects stick together after the collision.

b) The kinetic energy is conserved.

c) The momentum is conserved.

d) None of the above

Answer: a) The objects stick together after the collision.

Which of the following is an example of an inelastic collision?

a) A ball bouncing off a wall

b) A car hitting a wall and crumpling

c) A satellite orbiting the Earth

d) None of the above

Answer: b) A car hitting a wall and crumpling

Which of the following is an example of an elastic collision?

a) A ball bouncing off a wall

b) A car hitting a wall and crumpling

c) A satellite orbiting the Earth

d) None of the above

Answer: a) A ball bouncing off a wall

Which of the following is an example of a completely inelastic collision?

a) A ball bouncing off a wall

b) A car hitting a wall and crumpling

c) A satellite orbiting the Earth

d) None of the above

Answer: b) A car hitting a wall and crumpling

Which of the following is an example of a perfectly elastic collision?

a) A ball bouncing off a wall

b) A car hitting a wall and crumpling

c) A satellite orbiting the Earth

d) None of the above

Answer: a) A ball bouncing off a wall

Which of the following statements is true regarding the conservation of momentum in a collision?

a) The total momentum of the system is always conserved.

b) The momentum of each object in the system is conserved.

c) Both A and B

d) None of the above

Answer: a) The total momentum of the system is always conserved.