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.