

Which of the following is not a fundamental quantity?

- A. Length
- B. Mass
- C. Volume
- D. Time

Answer: C. Volume

A body moves with a constant acceleration. Which of the following is true?

- A. Velocity is constant
- B. Displacement is proportional to time
- C. Velocity-time graph is a straight line
- D. Acceleration decreases

Answer: C. Velocity-time graph is a straight line

Newton's first law is also known as:

- A. Law of force
- B. Law of action-reaction
- C. Law of inertia
- D. Law of momentum

Answer: C. Law of inertia

SI unit of work is:

- A. Newton
- B. Watt
- C. Joule
- D. Pascal

Answer: C. Joule

Value of acceleration due to gravity on the moon is:

- A. 9.8 m/s^2
- B. 1.62 m/s^2

- C. 0 m/s^2
- D. 10 m/s^2

Answer: B. 1.62 m/s^2

SI unit of electric charge is:

- A. Coulomb
- B. Ampere
- C. Volt
- D. Farad

Answer: A. Coulomb

Ohm's law is valid for:

- A. Electrolytes
- B. Gases
- C. Metals
- D. Vacuum

Answer: C. Metals

The earth's magnetic field is due to:

- A. Gravitational pull
- B. Electric currents in Earth's core
- C. Radioactive elements
- D. Magnetic materials

Answer: B. Electric currents in Earth's core

Lenz's Law is based on the principle of:

- A. Conservation of mass
- B. Conservation of momentum
- C. Conservation of charge
- D. Conservation of energy

Answer: D. Conservation of energy

The De Broglie wavelength is associated with:

- A. Stationary objects only
- B. Moving particles only
- C. Both A and B
- D. None

Answer: B. Moving particles only

