

Question Paper

Topic 1: Mechanics

Q1. What is the unit of force in the International System of Units (SI)?

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

Answer: A. Newton

Explanation: The unit of force in the International System of Units (SI) is the Newton, symbol N.

Q2. Explain the difference between speed and velocity in terms of direction.

Answer: Speed is a scalar quantity that only measures the magnitude of motion, while velocity is a vector quantity that includes both magnitude and direction.

Explanation: Speed is how fast an object is moving, and velocity is the speed of an object in a specific direction.