

Question Paper

Topic 1: Mechanics

Q1. What is the term for the force that opposes motion between two surfaces in contact?

Friction

Gravity

Magnetism

Tension

Answer: Friction

Explanation: Friction is the force that opposes motion between two surfaces in contact, which can affect the speed and direction of objects.

Q2. Can you explain the difference between mass and weight?

Answer: Mass is the amount of matter in an object, while weight is the force of gravity acting on an object's mass.

Explanation: This question assesses understanding of the distinction between mass (a measure of the amount of matter in an object) and weight (the force of gravity acting on an object's mass).