

# Question Paper

## Topic 1: Mechanics

Q1. What is the term used to describe 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, causing resistance to the relative motion of the surfaces.

Q2. Explain the difference between static friction and kinetic friction.

Answer: Static friction occurs between stationary objects and prevents them from moving, while kinetic friction occurs between moving objects.

Explanation: Static friction is the force that prevents stationary objects from moving, while kinetic friction is the force that opposes the motion of moving objects.