

ASSIGNMENT

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1. An object experiences a net zero external unbalanced force. Is it possible for the object to be travelling with a non-zero velocity? If yes, state the conditions that must be placed on the magnitude and direction of the velocity. If no, provide a reason.

When a net zero external unbalanced force is applied on the body, it is possible for the object to be travelling with a non zero velocity because once an object comes into motion and there is a condition in which its motion is unopposed by any external force; the object will continue to remain in motion.

2. Differentiate balanced and unbalanced force.

Balanced

If the resultant of all the forces acting on a body is zero, the forces are called balanced forces.

Imbalanced

If the resultant of applied forces are greater than zero, the forces are called unbalanced forces.

Q3) Define inertia.

ans:- Inertia is a property or tendency of every object to resist any change in its state of rest or of uniform motion in a straight line.

Q4) Write whose inertia is more:-

A bicycle and a train → train

A five rupee coin & a one rupee coin. → five rupee coin.