

HW

# Force and Laws of Motion

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- 1.7 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.
- 27 Differentiate balanced and unbalanced force.

## Answer.

- 1.7 When a net zero external unbalanced force is applied on the body, it is possible for the object to be travelling with non-zero velocity.

In fact, once an object comes in motion & there is a condition in which is imposed by any external

force; the object will continue to remain in a motion. It is necessary that the object moves at a constant velocity  $v$  in a particular direction.

2) <u>Balanced force</u>	<u>Un-balanced force</u>
1) The forces exerted on the object are equal in magnitude and opposite in direction.	forces applied on the object are unequal in magnitude.
2) Net force is zero	Net force is not zero
3) Body will be at rest	Unbalanced force makes the body move.
a) It does not change the state of rest or motion of an object	It changes the state of rest or motion of an object

# I N D E X

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