H.W
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Home Assignment

Q.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 & direction of the velocity. If no, provide a reason.

Q.2. Differentiate :- balanced & unbalanced force.

Answer

1.Ans. Yes, an object may travel with a non-zero velocity even when the external ~~unbalanced~~ force on it is zero. Once an object comes into motion & there is a condition in which is imposed by any external force; the object will continue to remain in motion. It is necessary that the object moves at a constant velocity & in a particular direction.

2.4m -

Balanced Force	Unbalanced Force
1) If the resultant of all the forces acting on a body is zero, the force is called Balanced Force.	1) If the resultant of applied forces are greater than zero, the forces are called Unbalanced Force.
2) Equal in magnitude.	2) Unequal in magnitude.
3) opposite in direction.	3) can be in any direction but opposite.
4) It does not cause any change in the state of motion of the object.	4) causes change in the state of motion of the object.