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Chapter :- 2

Force and Laws of Motion

1) Define Newton's first law of motion.

ans) Newton's first law of motion states that any object ~~will~~ will remain in the state of rest or in ~~motion~~ uniform motion until and unless an external unbalanced force is applied.

2) Define inertia.

ans) Inertia is a state of body in which if the body is at rest it will tend to be at rest & if the body is moving it will tend to be in motion.

3) Give reasons:-

a) If we try to get down from a moving bus, then we fall down.

ans) If we try to get down from a moving bus, then we fall down because we were in motion and if we suddenly stop then we will fall down.

b) We should use seat belts in vehicles.

ans) We should use seat belts in vehicles because if an accident or a sudden break will apply then we will not just go and hang over head on front.

c) Luggage kept on a moving bus should be tied with a rope.

ans) Luggage kept on a moving bus should be tied with a rope because if sudden breaks are applied then the luggage will fall in front of the bus.

d) Ripe fruits and dry leaves fall down when we shake its branches.

ans) When we shake their branches and the ripe fruits & dry leaves fall down because of inertia of rest. First they are at rest & we we shake their branches they fall because ~~intra~~ inertia will stop them from rest to go in motion.