

HW

24/06/2024 Chapter - 2

## Force and Laws of Motion

1) Define Inertia. What are the types of Inertia?

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

There are three types of inertia :-

- i- Inertia of Rest :- Tendency of a body to remain in the state of rest.
- ii- Inertia of Motion :- Tendency of a body to remain in a state of uniform motion.
- iii- Inertia of direction :- Tendency of a body to remain in a particular direction.

2) Define Newton's First Law of Motion.

ans) Newton's First Law of Motion states that any object will remain in the state of rest or in uniform motion and along a straight line until it is compelled to change the state by applying external force.