H.W

Physics

21- What do you mean by conservation of mechanical energy? State the condition when it holds.

A- The principle of conservation of mechanical energy states that if a body or system is subjected only to conservative forces, the mechanical energy of that body ~~or~~ system remains constant.

OR

The conservation of mechanical energy is strictly solid only in vacuum, where friction due to air is absent.

22- Give on example to show that the sum of potential energy and kinetic remains constant if friction is ignored.

A- During the vertical fall of the cylinder tube, if the friction due to air is ignored, the total sum of potential energy and kinetic energy at each point of it's remains same.