

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

Ans. During the vertical fall of the cylinder tube, if the ~~friction~~ friction due to air is ignored, the total sum of potential energy and kinetic energy at each point of its remains same.

mechanical energy.

chemical energy - The energy possessed

by fuels such as coal, oil, gas etc. is

called chemical energy.

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

Ans. Mechanical energy is the sum of potential and kinetic energy. The only condition

under which mechanical energy is

conserved is that all the forces

acting on it should be conservative

forces.

Physics

Q. What are the different forms of energy?

Ans. ~~are~~ These different forms of energy are:

1. mechanical energy
2. Heat energy
3. light energy
4. chemical energy
5. sound energy
6. magnetic energy
7. Electrical energy
8. Atomic energy

Q. Define mechanical energy and chemical energy.

Ans. mechanical energy - The energy ~~posse~~ possessed by a body due to its state of rest or state of motion is called