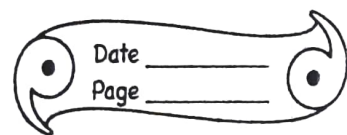


HW
10/9/2021

Home Assignment



1) Name the form of energy stored in a wound up spring of a watch.

Ans- The stored energy is potential energy.

2) Give an example to show the conversion of potential energy to kinetic energy when put in use.

Ans- A stretched bow has the potential energy because of its stretched position. When the stretched bow is released the potential energy of the bow changes into its kinetic energy.

3) State the energy changes that occur in a watch spring while it unwinds.

Ans- A wound up watch spring has P.E. (Potential Energy) stored in it due to its wound up state. The spring unwinds itself, the potential energy changes into kinetic energy with which it moves the arms of watch.

4) State the energy changes in the following while in use.

a) An electric bulb - Electrical to light energy.

b) An electric oven - Electrical to heat energy.

c) A loud speaker - Electrical to sound energy.

d) A microphone - Electrical to sound energy.

e) An electric motor - Mechanical to electrical energy.

