

Homework.

14. Name the form of energy which wound up watch spring possess

Ans Wound up watch spring has potential energy.

15. Can a body possess energy even when it is ~~not~~ not in motion? Explain your answer with example.

Ans Yes, a body ^{can} possess energy without any motion. Potential energy possess energy due to its state of rest or position. Example a compressed spring.

16. Name the type of energy (kinetic or potential) possessed by the following.

- i) A moving cricket ball \rightarrow Kinetic energy.
- ii) A stone at rest on the top of the building \rightarrow Potential energy.
- iii) A compressed spring \rightarrow Potential energy.
- iv) A moving bus \rightarrow Kinetic energy.
- v) A bullet fired from a gun \rightarrow Kinetic energy.
- vi) Water flowing in the river \rightarrow Kinetic energy.
- vii) A stretched rubber band \rightarrow Potential energy.

17. Give one example to show the conversion of potential energy to kinetic energy when put to use.

Ans When a hammer is uplifted into the air it has potential energy due to its height ~~but~~ but when

the hammer has been dropped it starts to fall down and has kinetic energy.