

6.2 Define work. What is its SI unit?

(LHR 2014)

Ans: Work is done when force acting on a body displaces it in the direction of a force.

Unit of work

In System International, its unit is joule (J).

Joule

The amount of Work done will be one joule if a force of one Newton displaces a body through a distance of one meter in the direction of the force.

6.3 When does a force do work? Explain.

Ans: When force acts on the body and body covers some distance in the direction of force then we said work is done. And this work can be calculated by the formula.

$$W = F \times S$$

6.4 Why do we need energy?

Ans: We need energy to do different types of work in our daily life. When we say that body has energy, we mean that it has the ability to do work.

Examples

- Energy is required to move.
- Energy is required to stop the moving objects.

6.5 Define energy; give two types of mechanical energy.

Ans: A body possesses energy if it is capable to do work.

OR

Ability of a body to do work is known as energy.

Types of Mechanical Energy

Mechanical energy possessed by a body is of two types:

- i) Kinetic Energy
- ii) Potential Energy

6.6 Define K.E. and derive its relation.

Ans: See Q. no.2 Long Question

6.7 Define potential energy and drive its relation.

(LHR 2013)

Ans: See Q. no.3 Long Question

6.8 Why fossils fuels are called non - renewable form energy?

(LHR 2013)

Ans: Fossil fuels took millions of years for their formation and once they are consumed, they cannot be generated again so they are called non-renewable form of energy.

6.9 Which form of energy is most preferred and why?

Ans: Solar energy is most preferred because it is the ultimate source of energy for life and sunrays do not pollute the environment. It is huge source of energy and if we find a suitable method to use a fraction of the solar energy reaching the Earth, then it would be enough to fulfill our energy requirements.

6.10 How is energy converted from one form to another? Explain.

Ans: See Q. no.5 Long Question

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