
Answer the following questions

1. Give one example of each of the following- (3)
 - i) Interconversion of chemical energy and electrical energy.
 - ii) Interconversion of light energy and chemical energy.
 - iii) Interconversion of potential energy and kinetic energy.

2. What is work? Give it's mathematical expression. (2)
3. Explain conservation of energy with respect to a roller coaster. (2)
4. What do you understand by 1 Joule? (1)

5. Fill in the blanks- (4)
 - i) The S.I unit of work is_____.
 - ii) The capacity of a body to do work is called it's _____.
 - iii) 1 Calorie = _____Joule.
 - iv) _____ is the combination of heat and light energy.

6. Define the following- (1×4=4)
 - i) Electromagnetic Energy
 - ii) Nuclear Energy
 - iii) Chemical Energy
 - iv) Sound Energy

7. Explain the production of hydroelectricity with the help of a diagram. (2+2)

_____ × _____ × _____