

PHYSICS - X-PART-3 CLASS 03



1. Energy change in electrical devices

Device	Energy change	Effect of electric current
Electric bulb	Electrical energy → Light energy	Lighting effect
Electric Fan	Electrical energy → Mechanical energy	Mechanical effect
Electromagnet	Electrical energy → Magnetic energy	Magnetic effect
Storage battery (while charging)	Electrical energy → Chemical energy	Chemical effect
Electric iron box	Electrical energy → Heating energy	Heating effect
Buzzer	Electrical energy → Sound energy	Sounding effect
Soldering Iron	Electrical energy → Heating energy	Heating effect

Advantage of Electric Energy

* Electric energy can be easily converted into many other forms of energy

* The useful form of energy into which a device converts electrical energy, is considered as the effect of electric current on that device.

Assignment

1. Complete the table (1.1)

Device	Use	Energy change
• Electric bulb →
• Induction cooker	To get heat	Electrical energy → Heat
• Storage battery (while charging) →
• Mixie →
• →
• →

2. Write the energy change that take place when the mobile phone is used in different situations.