Second Term Grade 7 Physics Notes

Book 3 Unit 7 "Electricity and Energy" Solutions to assignment 1

Question : Page 99 Q3 (a),(b),(c)

Ans) a) given that, Power = 2 kW Time taken = 4 hours Energy consumed = power \times time taken = 2kW \times 4hours = 8 kWh 1 kWh costs Rs 10. So, Cost of 8 kWh = 8kWh \times 10 = 80 Rs.

b) given that,
Power = 100 W
1 kW = 1000 W
100 W = 0.1 kW

Time taken = 5 hours Energy consumed = power \times time taken = 0.1 kW \times 5 hours = 0.5 kWh 1 kWh costs Rs 10. So, Cost of 0.5 kWh = 0.5 kWh \times 10 = 5 Rs.

c) given that,

Power = 1 W 1 kW = 1000 W 1W = 0.001 kW Time taken = 4 hours Energy consumed = power \times time taken = 0.001 kW \times 4 hours = 0.004 kWh 1 kWh costs Rs 10. So, Cost of 0.004 kWh = 0.004 kWh \times 10 = Rs.0.04

Solution of Multiple Choice Question (page no:104) Ans)

- i. d
- ii. a
- iii. b
- iv. b
- v. b