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(iii) Electrical and Heat 1

$$\text{kWh} = 1000 \text{ watts} \times 3600$$

$$\text{seconds} = 36 \times 10^5 \text{ Joules}$$

$$(a) 36 \times 10^5 \text{ calories} = 860$$

$$\times 10^3 \text{ calories} = 3.6 \times 10^8 \therefore 1$$

$$\text{kWh} = 860 \times 10^3 \text{ calories or}$$

$$860 \text{ kcal} \quad 1 \text{ kWh} = 36 \times 10^5$$

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Joules = $36 \times 10^6 / 1896$

C.H.U. = 1898 C.H.U. 5 5 (b)

[1 C.H.U. = 1896 Joules] \therefore

1 kWh = 1898 C.H.U. 36×10^6

5 1 kWh = 36×10^6 Joules = 5

(c) B.Th.U. = 3418 B.Th.U.

1053 [1 B.Th.U. = 1053

Joules] \therefore 1 kWh = 3418

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