

CARNOT'S HEAT ENGINE

$$\eta = \frac{W}{Q_1} \quad \text{--- (1)}$$

$$W = Q_1 - Q_2 \quad \text{--- (2)}$$

$$\eta = \frac{Q_1 - Q_2}{Q_1} \Rightarrow \eta = 1 - \frac{Q_2}{Q_1} \quad \text{--- (3)}$$

