$$40' (\times 10 \frac{mV}{i} = 400 \text{mV} \Rightarrow \frac{1}{1+R} = 0.4 \Rightarrow \frac{1}{1+R} \times 5 = \frac{2}{40}$$

$$\Rightarrow 25 = 2 + 2R \Rightarrow R = \frac{25}{2} = 11.5 \text{ kg}$$

$$AD(= \frac{1024 \cdot V_{in}}{V_{RFF}} \Rightarrow 1 = \frac{1024 \cdot V_{in}}{500 \text{ mV}} \Rightarrow V_{in} = 0.489 \text{ mV}$$

$$\Delta T = \frac{0.489 \text{ mV}}{10 \text{ mV/c}} = 0.0489 \text{ c}$$

$$\Delta T = 1C \Rightarrow \Delta V_{in} = 1C \times 10 \text{ mV/c} = 10 \text{ mV}$$

$$\Rightarrow ADC = \frac{1024 \cdot V_{in}}{V_{RFF}} = \frac{1024 \times 10}{500} = 20.48 \text{ class min} = 1C \Rightarrow \text{ Given in its of the priority}$$

 $\frac{1}{1+R} = 0.2 \Rightarrow 25 = 1+R \Rightarrow R = 24 \text{ kg} : 20\% : 2$