

EGBUAMU HIKMAT IGANYA  
18/ENG03/025  
CIVIL ENGINEERING

$T_1$  @ thermometer =  $10^\circ\text{C}$

$T_2$  @ " =  $20^\circ\text{C}$

Time taken = 5 minutes = 300 secs.

~~$10^\circ\text{C}$  @ 0 secs~~

~~$20^\circ\text{C}$  @ 300~~

$$\Delta T = 20 - 10 = 10^\circ\text{C}$$

$$\text{Final } T = 24.9^\circ\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$$

~~$10^\circ\text{C}$  to 300 secs~~

~~$14.9^\circ\text{C}$  to  $x$~~

$$10x \text{ to } 300 \times 14.9$$

$$10x = 4470$$

$$x = 447 \text{ seconds}$$

$$x = 7 \text{ minutes } 27 \text{ seconds.}$$



