

BASHIR ABUBAKAR

IDRIS

18/ENGR01 (OU)

2001

CHEMICAL ENG

Q1)  $T_1$  of thermometer =  $10^\circ\text{C}$

$T_2$  of thermometer =  $20^\circ\text{C}$

Time taken = 5 minutes = 300 seconds

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

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

$$10x = 300 \times 14.9$$

$$10x = 4470$$

$$x = 447$$

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

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



