$$M = 50 \text{ g} = 50 \text{ k/o}^{-3} \text{ ling}$$

$$T_{1} = 25^{\circ}\text{C} = 298.15 \text{ K}$$

$$Q = 1200 \text{ J}$$

$$Q_{1} = 386 \text{ J/kg.K}$$

 $D T_{\phi} = \frac{Q}{W_{-}C_{CU}} + T_{i} = \frac{12005}{(50\times10^{-3} \log_{3})(386 \frac{J}{\log_{3} k})} + 298.15 \text{ K} D T_{+} = 360 \text{ K}$

SOLUTIONE
$$\mathcal{Q} = -Cai \cdot u \cdot \Delta T \Rightarrow \mathcal{Q} = \frac{Coa \cdot u}{Cai \cdot u} \left(T_{4} - T_{i} \right) \Rightarrow T_{4} - T_{i} = \frac{\partial}{u \cdot Ccu}$$

SOLUTIONE









383.15

TE = 373,15-

 $0 = C_V M \Delta T = C_V M (T_{4} - T_{E}) = [...] = 804 J$ $Q_{VX} = Q_{3} + Q_{5} + Q_{c} + Q_{3} + Q_{c} = 1.22 \times 10^{5} J$

· Qc= FA W DT = -CA W (Te-To) = [...] = 1.67x104 J

· Q = W LA-V = [...] = 9.04x104J

MCHIESTA

Q TOT =?

DAM

 $w = 40 g = 40 \times 10^{-3} \text{ kg}$

Ti=-10°C = 263.15 K

$$C_{Ag} = 234 \text{ J/llq K} \qquad \Delta T = ?$$

$$W = 4g$$

$$V_{1} = 300 \text{ W/S}$$

$$SOLUAIONE$$

$$\Delta E_{K} = E_{K}^{1} - E_{K}^{1} = -\frac{1}{2} \text{ WV}_{1}^{2}$$

$$A = W \cdot C_{Ag} \cdot \Delta T$$

$$\Delta T = \frac{1}{2} \frac{V_{1}^{2}}{C_{Ag}} = \frac{1}{2} \frac{[300 \text{ W/S}]^{2}}{[234 \text{ J/llg K}]} = 192 \text{ C}$$

$$\frac{\text{W}^{2} \text{ Kg K}}{c^{2} \text{ T}} = \frac{\text{W}^{2} \text{ Mg K}}{c^{2} \text{ J}} \times \text{W}$$

Leg J L = 3K

NICHIESTA

m = 49

V; = 300 m/S

Vt = 0 w/S

- SOLUTIONE

4) DATT

$$V = 80 \text{ m}^3$$
 $M = 28.9 \text{ 9/mol}$
 $T_0 = 18^{\circ}\text{C}$
 $T_1 = 25^{\circ}\text{C}$
 $P = 101 \text{ KPC} = \text{cosT.} = 101 \text{ k10}^{\circ}\text{Re}$
 $P = \frac{1}{5} \text{ CNJ} = \text{[Re]}$

Solutions

L) $\frac{1}{100} \text{ V}_0 = \frac{1}{100} \text{ RTo}$
 $P = \frac{1}{5} \text{ CNJ} = \text{[Re]}$
 $P = \frac{1}{5} \text{ CNJ} = \text{[Ne]}$
 $P = \frac{1}{5} \text{ CNJ} = \text{[Ne]}$

us wold be

$$T_{S} = 95^{\circ}C$$

$$V = 2L = 2\times 10^{-3} \text{ m}^{3}$$

$$T_{A} = 20^{\circ}C$$

$$T_{E} = 21.3^{\circ}C$$

$$SOLUTIONE$$

$$P = \frac{M_{A}}{V_{A}} \quad D \quad M_{A} = P_{A} \cdot V_{A} = \left(\frac{1}{2} \cos \frac{M_{B}}{M^{3}} \right) \left(2\times 10^{-3} \, \text{m}^{3} \right) = 2 \, \text{Mg}$$

$$Q_{SA} = -C_{S} \, \text{Ms} \, \Delta T_{S} \quad D \quad Q_{SA} = -C_{S} \, \text{Ms} \, \left(T_{E} - T_{S} \right)$$

$$Q_{AS} = -C_{A} \, M_{A} \, \Delta T_{A} \quad D \quad Q_{AS} = -C_{A} \, M_{A} \, \left(T_{E} - T_{A} \right)$$

$$Q_{SA} = Q_{AS}$$

$$C_{S} \, M_{S} \, \left(-T_{E} + T_{S} \right) = -C_{A} \, M_{A} \, \left(T_{E} - T_{A} \right)$$

$$M_{S} \, \left(-T_{E} + T_{S} \right) = -C_{A} \, M_{A} \, \left(T_{E} - T_{A} \right)$$

$$M_{S} \, \left(-T_{E} + T_{S} \right) = -C_{A} \, M_{A} \, \left(T_{E} - T_{A} \right)$$

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$$M_{S} \, \left(-T_{E} + T_{S} \right) = -C_{A} \, M_{A} \, \left(T_{E} - T_{A} \right)$$

$$M_{S} \,$$

RICHIESTA

_Cs = ?

Ws = 0.378 kg

$$\frac{MN_2}{LN_2} = \frac{2}{LN_2} = \frac{2}{2009283/llg}$$

MCHIESTA

(6) DATT