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QNO.3

$$M = 10.0 \text{ Mg}$$
 $V_1 = 20 \text{ bal}$
 $V_2 = 100 \text{ bar}$
 $V_3 = 100 \text{ bar}$
 $V_4 = 100 \text{ bar}$
 $V_5 = 100 \text{ bar}$
 $V_7 = 100 \text{ bar}$
 V_7

$$v_{v} = 0.0342 \text{ m/y}$$

$$0.0342$$

$$0.0342$$

$$P_{E} \cdot dv = - \int_{0.1}^{0.0342} P_{e} dv$$

$$P = \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} = \frac{1}{2} =$$

u. = 2602.96 45/m " = 0.0342 m3/4 At state 2, Pr = 10mPa 1 (m3/4) 42 (105 (kg) 0.0328 0.0342 0.0356 3144.5 û2 = 3095, 15 M/m =) <u>Nu</u> = u, -u, = (3095.15 - 2602.97) US 1 û = 492.18 m / mg 4 4 = 9 # w à = su + ê 9 = (492-18-283.8) W/my da = 492.38 ide 9 = 208.38 us/y

$$P = 7bal$$
 $h = 2600 \, UJ \, ly$
 $V = ?$
 $V = ?$
 $V = ?$

Sol
$$\hat{h} = hf + u.hfg$$

$$2600 = 697.1 + n(2064.9)$$

$$2600 - 697.1 = n(2064.9)$$

$$\frac{1902.9}{2064.1} = n$$

$$u = 0.921$$

(3)
$$\ddot{u} = 4 + 4ufg$$

$$= 696.3 + (0.921) (2571.1 - 696.3)$$

$$= 6963 + (0.921) (1874.8)$$

$$= 6963 + 1726.6908$$

$$= 2420 UJ/y$$

Q. NO.)) System seless to the subject matter of analysis. Thermodynamic system or system refer to definite quantity of matter, enclosed by a boundary on which we focus ous attention for thermodynamic analysis somounding [system] Fig. D./ 4) Surroundings
This part of the universe other than
the system is called surroundings, its shown 3) Adiabatic process heat transfer through bondries of the system. y) Isolated process

No mass or heat energy

transfer with environment.

J Extensive property

Depend upon the mass of

System e.g. mass, volume, internal energy

Enthology, Entropy.