	The second second second
Name: Hunain Zovid!	
Rulling: Chen11111043.	
Class: Chemical Engineering (31d sem)	
Course Instructor: Dr. Aamir Alau Din	
Q. no. 1	
1 - System:	
Anything under consideration	
that who's some inputs by	
which some process is going	
and producing some output	
is colled system.	
2 - Surroundings:	
Every - thing except	
system and boundary is	
called surroundings.	
3- Adiabotic Process:	
A process (in which	
system a cannot exchange mas	
and hed to surroundings is	- 2
called adiabatic process.	2

	2 Chen 19111643
and the second s	Hugain Zavia
	4- Isolated System:
	1 custer
	neither most not energy goes.
	Ulaman and and and and and and and and and a
	is called isolated system.
	The state of the s
	5- Extensive Property:
	A property which
	depends on the size of
	system is colled extensive
	system.
	9
	Q.no.2
)	Data:
,	P = 7 box
	h = 2 boo k J/4g
	$\hat{V} = \hat{I}$
	$\hat{u} = ?$
	Solution:
	h' = hf + nhf
	2600 = 697.1 + n (2064.7)
	2600 - 697.1 = n (2064.9)
	x = 0.921

Hunsin | Zaylol

chen 17111043

 $\hat{u} = u_1 + v_1 u_1,$ = 0.90.3 + (0.901)(1377.8) $\hat{u} = 0.400.47u_3$

So, specific volume is 0.2515 m²/y, and specific internal energy is 2420 VI/v,

Q. no . 3

Data:

 $m = 10 \text{ kg} \qquad P_1 = 30 \text{ box}$ $v_1 = 1 \text{ m}^3 \qquad P_2 = 100 \text{ box}$ $P_3 = 100 \text{ box}$ $P_4 = 20 \text{ box}$

por of song

To find work dune and heat transferred.

	y	,
	Hunain Zavid chen 19111043	
	Solution	
	Pa = 20 box lookPa	
	= 2000 kPa	1
	$\frac{2MPa}{\sqrt{1 - 2(m^3)^2}} = 0.1 m^3/kg$	
	lokg	
	$A \neq P = 2 M P 0$: $\hat{V}_{1} = 0.0012$ $\hat{V}_{2} = 0.0996$	
	Since, vi sû, se vican is	
	T (°C) 2 (m³/4g)	
	7	
	$y = \left((y_2 - y_1) \left(\frac{n_1}{n_2 - n_1} \right) + y_1$	
F	T = (225 - 212.4) (0.1 - 0.0.996) + 2	
	7 213,6 °C	12.4
	Now,	

		1 MALL
	Hunoin Zavid Chen 19111043	
	P2 = 100 box / 100 kPa	
	1 50%	
	= 10,00 k Po	
	= 10 MPa	
	$P_{\nu}^{\Lambda i \cdot s} = P_{\nu} \hat{V}_{\nu}^{i \cdot s}$	
	01.5 = P. 01.5	
	Pz	
1	$\frac{\partial}{\partial r} = \left(\frac{P_1 \cdot \hat{V}_1 \cdot \vec{v}}{P_2}\right)^{1/3}$	
	p_2	
	$\frac{\sqrt{3}}{\sqrt{3}} = \frac{2MPq}{\sqrt{3}} = \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{\sqrt{3}$	
	lompa lompa	
2		
	$\hat{J}_{2} = (0.2 \times (0.1)^{1.5})^{1/1.5} m^{3}/u_{9}$	
27		
	J2 = 0,0342 m3/hg	
1		
	ω z - (ρ _E d2 = - (ρ _d ν	
	0.1	
	P 2" = P, 2" =	
	P=P,Dis	
	C.C.	
		1
		1