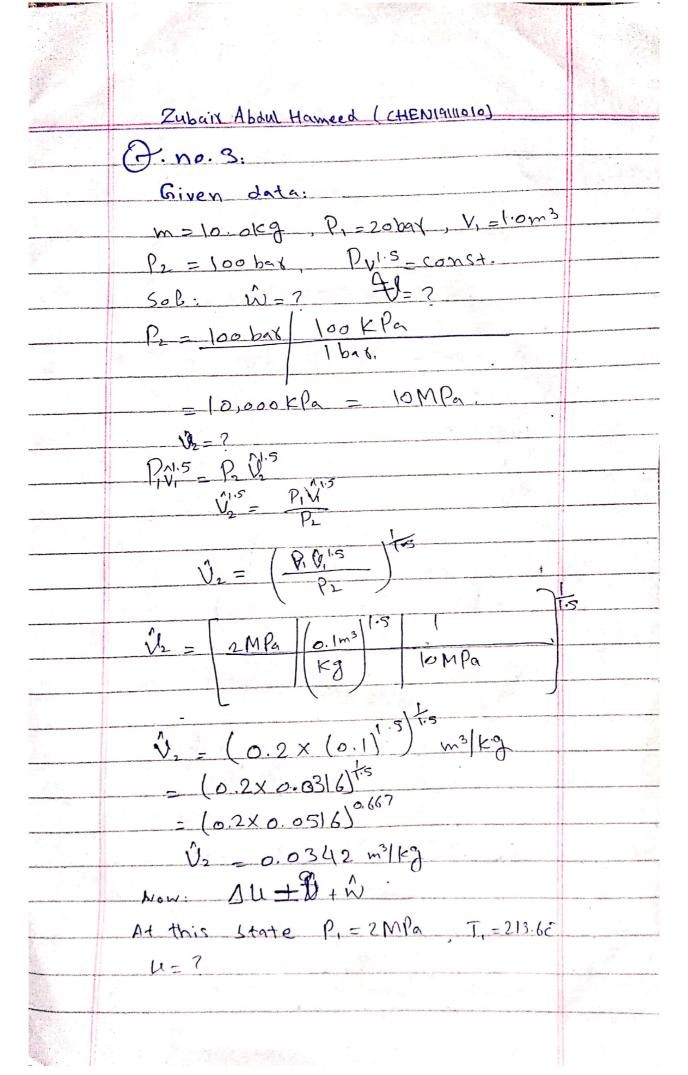
		Constant
	Name: Zubair Abdul Hameed.	
	Reg. No.: CHEN19111010.	
	Subject: Chemical Engineering Thermodynamics-I	
	Course instructor. Dr. Engr. Amis Alaud-Din.	9 1 98
V		
	Q.no.1	
	(i) System:	
	In thermodynamics the	
	system is defined as a definite	
	space or area on which the study	
100	of energy transfer is made.	
	(ii) Suddounding.	,
	Anothing outside of	
	the System which effects the	
	behaviour of the System is called	
	Surrounding.	
F-1	Example: Radiator, Air etc.	
10-	Liij Adiabatic System:	
	Adiabatic System is a	
	system in Which no heat	
	transfer occurs across the system	
	boundary.	
	(iv) Isolated System:	
	A System in which no	
	heat ox mass transfer occurs	
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Zubric About Hamsed. CHEMMUIAD	
actoss the boundary system	
is called Isolated System.	par y
WEXTENSIVE Property:	~
Extensive Properties are	
those that change with the size	
of the system. If the size	
of the system double them	-4
Value of extensive Prolesty doubles.	
	1
	<i>F</i>
	18
The second secon	and the state of t

	Zubaio Abdul Hameed CHENTIIIOIO.	
	Q:no.2	
	Given data:	
	P= 7bar, H=2600KJ/kg	
	$\hat{V} = ?$, $\hat{U} = ?$	
	Sol:	
	17 = bf + 21 hfg	
	2600 = 697.1 + x(2064.9)	
	2600-697.1= 2(2064.9)	
	$\frac{\chi = 1902.9}{2064.9}$	
	2064.9	
	$\mathcal{X} = 0.921$	
	$\hat{V} = Vf + k Vfg$	
	-0.001108+(0.92)(0.273-0.001108)	
	-0.00/108+(0.92)(0.27/892)	
	= 0.001108 + 0.25041	
Of all of the polytopic design, in our constant of the constan	V = 0.2515 m/kg	
No. 6 No Story - Art and Company on Mills Share Sha		
	U=Uf+xUfg	
	=696.3+(0.921)(2571.1-696.3)	
	= 696.3 + (0.921)(1874.8)	
	û= 2420 KJ/Kg)	



	Zubak Abdul Hameed (CHEN19111010)	
	[] [V][V] T(C)	
Contraction on the second contraction of the second	U, (KJ/Kg) - T(c) 2600.3 - 212.4	
	U1 213.6	
2	2628.3 225	
	u1 = 2602.97 KJ/Fg	
	Now at State 2:	
	P_=10MPa, V2=0.0342 m3/kg	
	(12 (KJ/Kg) V2(m3/Kg)	
	3045.8 6.0328	
	a. 0.0342	
	3144.9 0.0356	
	U2= 3095.15 KJ/Kg	
System and Control of the Control of	Now: 0.0342 0.0342	
	W=- PEdV = - PdV	
	0.1	
	P.V.= P.V. => P = P.V.	
	11.511	
	P-2MPa (0.1m3)	
was a superior and the		
Commence of the Commence of th		
	P = 0.0632 MPa	
	0.0342	
	$\hat{W} = - \left(\frac{0.0632}{171.5} \right) d\hat{V}$	
	0,1	
	AL PARTY TO A STATE OF THE STAT	
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