	XI Chemistry Worksheet	
Time: 30 min	Ch#6: Thermodynamics -01	Full Marks: 20
Instructions: 1. All questions are 2. Please give the e	compulsory. explanation for the answer where applicable.	
Q1 - Explain Open, Clos	ed and Isolated system with examples.	(3 Marks)
Q2 - Explain macroscopi	ic system and properties.	(3 Marks)
Q3 - Define Isochoric pr	ocess.	(1 Mark)
Q4 - Derive an expression	on for the work done in an isothermal, reversible process	(5 Marks)
(i) No heat is absorbed I	e in internal energy of a system when by the system from the surroundings, but work (w) is do	one on the system. What
	stem have? the system, but q amount of heat is taken out from the s e of wall does the system have?	system and given to the
(iii) w amount of work is of system would it be?	s done by the system and q amount of heat is supplied to	o the system. What type
		(3 Marks)
	eal gas initially at 27 ⁰ C and one atmospheric pressure are ibly till the final pressure of the gas is 10 atm. Calculate	
		(3 Marks)
Q7 - Explain the enthalp	by of formation of a substance.	(1 Mark)
Q8 -Give the second law	v of thermodynamics.	(Tivialk)

(1 Mark)