X.	Out of boiling point (I), entropy (II), pH (III) and density (IV), intensive properties are			
	(A) I, II	(B) I, II, III	(e) I, III, IV	(D) All of these
2.	If work done by the sys	stem is 300 joule when 100	0 cal. heat is supplied to it.	The change in internal energy
	during the process is:	9- NU-W	THE STATE OF THE	
	(A) – 200 Joule	w = 9-0	(B) 400 Joule	
	(C) 720 Joule	and the second	(D)-120 Joule	
3.	One mole of a gas absorbs 200J of heat at constant volume. Its temperature rises from 298 K to			
	308 K. The change in internal energy is:-			
	(A) 200 J	(B) –200 J	(C) $200 \times \frac{308}{298}$ J	(D) $200 \times \frac{298}{308}$ J
A system has internal energy equal to U ₁ , 450 J of heat is taken out of it and 600 J o				and 600 J of work is done on
	it. The final energy of	the system will be -	28 KCal moi . The c. is	
	$(A)(U_1 + 150)$	(B) $(U_1 + 1050)$	(C) $(U_1 - 150)$	(D) None of these
5.	The work done by a weightless piston in causing an expansion ΔV (at constant temperature), when			
	the opposing pressure P is variable, is given by:			
	(A) $W = -\int PdV$	(B) $W = 0$	(C) $W = -P\Delta V$	(D) None
6.	What is ΔU for the process described by figure. Heat supplied during			
	the process $q = 200 \text{ k}$	J. w smithing to noise	or ve borrone at 219,	1bar
	(A) +50 kJ		(B) -50 kJ	108 + (8), 4,0
	(C) -150 kJ		(D) + 150 kJ	lm³ 2m³
7.)	What is the change in internal energy when a gas is compressed from 377 ml of 177 ml under a			
	constant pressure of 1520 torr, while at the same time being cooled by removing 124 J heat? STELLAND (11 of m) = 100 II			
	[Take : (1L atm) = 1	00 J]		
	(A) -24 J			or the resistance of the second
//	(C) – 164 J			The Control of the Co
1./	An ideal gas is taken around the cycle ABCDA as shown in figure. The net			
	work done during the	cycle is equal to :-	1 100 (18)	P
((A) Zero	CDCC	STUDY	P
	(B) Positive	200	וטטו	VVV
	(C) Negative			12

(D) We cannot predict





