

Daily Tutorial Sheet [DTS] | Thermodynamics

Level-1													DTS 1-5	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
B	D	B	A	A	B	C	B	A	B	C	B	B	A	B
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
A	B	C	D	C	B	A	B	A	C	B	B	C	B	D
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
D	A	D	B	C	ACD	B	ABD	A	D	B	C	D	A	C
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
ABCD	D	B	D	B	A	A	A	A	C	B	D	D	A	A
61	62	63	64	65	66					67				
BD	ABCD	BCD	AB	C	[A : 1, 2] ; [B : 1, 2] ; [C : 3] ; [D : 1, 2]					[A : 1, 3] ; [B : 2] ; [C : 1, 3] ; [D : 2, 4]				
68	69	70	71	72	73	74	75							
D	B	C	D	A	A	A	A							

Level-2												DTS 6-11		
76	77					78	79	80	81	82	83	84	85	86
BCD	[A : 1, 2] ; [B : 3] ; [C : 1, 2, 3] ; [D : 4]					C	D	B	A	D	B	BCD	AB	B
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101
B	C	A	D	D	A	D	B	C	B	D	D	C	CD	A
102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
B	C	A	D	ACD	ACD	A	D	A	A	B	B	B	D	B
117	118	119	120	121	122	123	124	125	126		127	128		129
B	C	A	D	C	D	B	A	B	223.53		32	290.81		190.7
130	131		132	133	134	136	137	138	139	140				
2.98	172.28		50	0	2.4	-1.01	32	2.7	6.3	114.51				

JEE Main (Archive)													DTS 1-2	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	BD	BCD	C	A	C	A	AB	A	D	D	A	D	A	D
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
A	D	C	A	D	A	A	C	D	D	B	A	A	6.25	D
31	32													
48	−2.70													

JEE Advanced (Archive)														DTS 1-3	
1	2	3	4	5		6		7		8			9		
T	R	900	T	Isolated		Extensive		Zero		−116.4 J			B		
10			11		12	13						14			
$\Delta_{\text{T}}G^\circ = -257.2 \text{ kJ} < 0$			16 kJ, 12.3 kJ		C	(i) $w = -6.14 \text{ L atm}$, $Q = 6.14 \text{ L atm}$ (ii) $\Delta U = \Delta H = \Delta S = 0$						Subjective			
15	16		17	18	19	20	21	22	23	24	25	26	27		
B	9.8 L bar		D	A	A	B	B	A	D	A	AD	2	7		
28				29					30	31	32	33	34	35	
A-p, r, s; B-r, s; C-t; D-p, q, t				A-r, t; B-p, q, s; C-p, q, s; D-p, q, s, t					AC	ACD	C	B	ABC	B	
36	37	38	39	40	41	42	43	44							
B	C	A	BD	ACD	C	B	BC	AC							