



Sri Chaitanya IIT Academy, India

A.P, TELANGANA, KARNATAKA, TAMILNADU, MAHARASHTRA, DELHI, RANCHI

A right Choice for the Real Aspirant

ICON CENTRAL OFFICE, MADHAPUR-HYD

Sec: Sr. IPLCO

JEE ADVANCED

DATE : 13-12-15

TIME : 02:00 PM TO 05: 00 PM

2012_P2 MODEL

MAX MARKS : 198

KEY & SOLUTIONS

PHYSICS

1	B	2	C	3	A	4	B	5	D	6	D
7	B	8	A	9	B	10	D	11	B	12	A
13	A	14	C	15	BD	16	AC	17	ABC	18	CD
19	BC	20	ABC								

CHEMISTRY

21	A	22	C	23	A	24	C	25	B	26	B
27	A	28	C	29	A	30	C	31	A	32	B
33	C	34	A	35	BC	36	ABC	37	ABC	38	ABC
39	BCD	40	CD								

MATHEMATICS

41	A	42	C	43	A	44	A	45	C	46	B
47	B	48	B	49	D	50	B	51	B	52	D
53	B	54	D	55	BCD	56	AB	57	AD	58	BCD
59	BC	60	ABCD								

CHEMISTRY

21. Positive deviation
22. Internal pressure = $\frac{n^2 a}{v^2}$
23. One 'y' occupies tetrahedral void
One 'y' occupies octahedral void
24. Conceptual
25. E_a value high then change in 'k' is high
26. E_a value high indicates rate determines step
27. $a_x = \frac{a_0}{2^n}$
28. $a_x = \frac{a_0}{2^n}$
29. Above T_c gas cannot convert into liquid
30. Conceptual
31. Assume $r_{cl^-} = a$
 $r_{Na^+} = 0.5a$
 $r_{k^+} = \frac{5a}{7}$
 $\frac{r_{KCl}}{r_{NaCl}} = \frac{5\frac{a}{7} + a}{0.5a + a} = 1.143$
32. $\frac{d_1}{d_2} = \frac{58.5}{(1.5)^3} \times \frac{(1.71)^3}{74.5} = 1.17$
33. $a_n = a_0 e^{-kt}$
34. 1st order
35. Heavier gas having narrow distribution
36. At T_c densities of gas and liquid are same
37. Conceptual
38. In zero order $k = \frac{x}{t}$
39. Order with respect to A is 1, with respect to B is 2
40. Conceptual