



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

Time: 09:00 AM to 12:00 Noon

RPTA-8

Dt: 27-09-15

Max.Marks: 180

PAPER-1

KEY & SOLUTIONS

PHYSICS

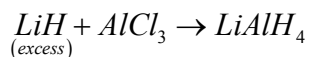
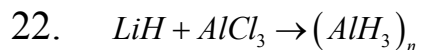
1	BD	2	BC	3	BCD	4	BD	5	CD	6	BC
7	ABCD	8	ABCD	9	BCD	10	CD	11	3	12	5
13	5	14	2	15	1	16	2	17	4	18	3
19	8	20	4								

CHEMISTRY

21	ABCD	22	AB	23	ABCD	24	AB	25	D	26	ABC
27	AB	28	AD	29	ACD	30	ABCD	31	1	32	1
33	3	34	6	35	4	36	0	37	6	38	2
39	2	40	6								

MATHS

41	CD	42	ABC	43	AC	44	CD	45	ACD	46	ACD
47	ACD	48	ABC	49	ABCD	50	ABD	51	4	52	7
53	1	54	2	55	8	56	6	57	2	58	1
59	5	60	9								

CHEMISTRY

23. Metal nitrates are soluble.

Among sulphates of group-II elements only $BeSO_4, MgSO_4$ are soluble due to higher hydration Energy of Be^{+2} and Mg^{+2}

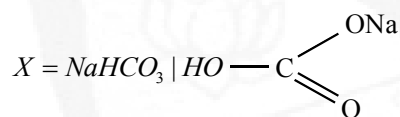
24. sp^3 and sp^2 borons are joined: it is a meta borate.

25. It is two dimensional solid with sp^2 Hybridised boron atoms, monobasic Lewis acid.

26. Facts.

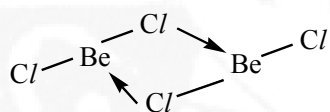
29. Thermal stability \propto electro positive character
solubility and ionic character Increases down the group.

32.



33. Except Lithium all alkali metals form ethynide on reaction with Ethyne.

34.



‘Be’ sp^2 planar molecule

35. Be^{+2} can provide only four vacant orbitals.

40. X is $B_3N_3H_6$.