



# 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: 9:00 AM to 12:00 Noon

RPTM-7

Date: 19-09-15

Max.Marks: 360

## KEY SHEET

PHYSICS		MATHS		CHEMISTRY	
Q.NO	ANSWER	Q.NO	ANSWER	Q.NO	ANSWER
1	3	31	1	61	3
2	4	32	2	62	3
3	2	33	2	63	2
4	4	34	4	64	1
5	1	35	4	65	3
6	3	36	4	66	4
7	3	37	2	67	2
8	4	38	2	68	4
9	2	39	3	69	2
10	2	40	1	70	4
11	4	41	3	71	3
12	1	42	2	72	2
13	3	43	2	73	4
14	4	44	1	74	3
15	2	45	1	75	2
16	4	46	2	76	3
17	1	47	3	77	1
18	1	48	4	78	4
19	4	49	3	79	4
20	3	50	1	80	3
21	2	51	1	81	1
22	1	52	1	82	2
23	2	53	2	83	2
24	2	54	4	84	1
25	4	55	4	85	2
26	2	56	3	86	2
27	4	57	1	87	2
28	3	58	4	88	4
29	1	59	1	89	2
30	4	60	1	90	1

**CHEMISTRY**

61. Blue -  $\text{CrO}_5$
64.  $\text{Zn} + \text{Conc H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{SO}_2 + \text{H}_2\text{O}$
66.  $\text{KO}_2$  – superoxide
67. Cr
70.  $\text{BaO}_2 \cdot 8\text{H}_2\text{O}$  - peroxide
71.  $\text{Uuo} - Z = 118$
72.  $\text{H}_2\text{O}_2 + [\text{Fe}(\text{CN})_6]^{3-}$  --- in basic medium
73.  $(\text{NaPO}_3)_6$  – calgon
75.  $\text{BeCl}_2$
77. Be, Mg, N, Inert gases – positive electron gain enthalpy
82. Salts like NaCl are less soluble in heavy water than water.
- $\text{NaH} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
85.  $\text{X} = \text{CO} + \text{H}_2$
- $\text{CO} + \text{H}_2\text{O} \rightarrow \text{CO}_2 + \text{H}_2$  - water gas shift reaction
- $\text{Z} = \text{Cr}_2\text{O}_3 + \text{Fe}_2\text{O}_3$  – catalyst
86.  $\text{Mn}^{7+}$  – more covalent
88.  $90^\circ$
90.  $\text{GeH}_4 > \text{SiH}_4 > \text{CH}_4$  – decreasing order of boiling points