

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-12

Date: 14-11-15

Max.Marks: 360

KEY SHEET

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

CHEMISTRY

- 61. Borax bead test must be performed for coloured substances only
- 64. $\text{LiNO}_3 \rightarrow \text{Li}_2\text{O} + \text{NO}_2 + \text{O}_2$

$$NaNO_3 \rightarrow NaNO_2 + O_2$$

$$Pb(NO_3)_2 \rightarrow PbO + NO_2 + O_2$$

$$AgNO_3 \rightarrow Ag + NO_2 + O_2$$

- 67. PbCl₂ soluble in hot water
- 70. AgCl,AgBr,AgI soluble in Na₂S₂O₃(aq)
- 74. $Bi^{3+} + I^- \rightarrow BiI_3 \downarrow \xrightarrow{\text{excess } \Gamma} [BiI_4]^-$
- 80. $Cu^{2+} + CN^{-} \rightarrow Cu(CN)_{2} \downarrow \rightarrow CuCN \downarrow + (CN)_{2}$ $CuCN \xrightarrow{excess KCN} K_{3} \lceil Cu(CN)_{4} \rceil$
- 82. Ferric thiocyante blood red colouration
- 83. $HOSO_2NH_2 + HNO_2 \rightarrow N_2 + 2H^+ + SO_4^{2-} + H_2O$
- 85. $S^{2-} \xrightarrow{H^+} H_2 S$

$$\operatorname{Cr_2O_7^{2-}/H^+} \xrightarrow{\operatorname{S^{2-}}} \operatorname{Cr}^{3+} (\operatorname{green})$$

87. $Fe^{2+} + MnO_4^- \xrightarrow{H^+} Fe^{3+} + Mn^{2+}$

$$C_2O_4^{2-} + MnO_4^- \xrightarrow{H^+} CO_2 + Mn^{2+}$$

89. $I^- + \lceil Fe(CN)_6 \rceil^{3-} \rightarrow \lceil Fe(CN)_6 \rceil^{4-} + I_3^-$

$$3Zn^{2+} + 2K^{+} + 2\left[Fe(CN)_{6}\right]^{4-} \rightarrow K_{2}Zn_{3}\left[Fe(CN)_{6}\right]_{2}$$
 (white ppt)

$$K_2 Zn_3 [Fe(CN)_6]_2 + 12(OH)^- \rightarrow 2 [Fe(CN)_6]^{4-} + 3 [Zn(OH)_4]^{2-} + 2K^+$$