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 **Dt: 01-11-15**

Time: 09:00 AM to 12:00 Noon **RPTA-10** **Max.Marks: 180**

PAPER-1

KEY & SOLUTIONS

PHYSICS

1	**ABD**	2	**BC**	3	**A**	4	**BC**	5	**D**	6	**ABC**
7	**AC**	8	**C**	9	**AD**	10	**AC**	11	**5**	12	**3**
13	**8**	14	**6**	15	**3**	16	**0**	17	**6**	18	**6**
19	**3**	20	**0**								

CHEMISTRY

21	**ABCD**	22	**CD**	23	**ABC**	24	**ABCD**	25	**ACD**	26	**ABD**
27	**ABD**	28	**AB**	29	**ABC**	30	**ABD**	31	**4**	32	**3**
33	**4**	34	**5**	35	**7**	36	**2**	37	**8**	38	**3**
39	**9**	40	**3**								

MATHS

41	**BCD**	42	**AC**	43	**ABC**	44	**ABD**	45	**ABCD**	46	**ABD**
47	**BCD**	48	**AB**	49	**AD**	50	**ABCD**	51	**3**	52	**5**
53	**2**	54	**7**	55	**1**	56	**6**	57	**1**	58	**9**
59	**2**	60	**3**								

CHEMISTRY

21. All can oxidize I^- to I_2

22. AgF and $AgNO_3$ are soluble in water

23. dil.NaOH gives OF_2, conc.NaOH gives O_2

24. All can give O_2

25. $XeO_3 + 2XeF_6 \rightarrow 3XeOF_4(p)$, $XeO_3 + XeOF_4 \rightarrow 2XeO_2F_2$

26. No reaction with dry SiO_2.

27. (c) is $Na_3(AlF_6)$

28. (C) and (D) have high BP.

29. Silica will provide acidic lining

30. Al is extracted by electro reduction.

31. Euchlorine : $Cl_2 + ClO_2, O + 4 = 4$

32. $3NaClO \rightarrow 2NaCl + NaClO_3$

33. $AgF, AgCl, PbCl_2$ are white

34. $CaF_2, Hg_2Cl_2 AgCl, TlCl, HgI_2 \rightarrow$ water insoluble.

35. $XeF_6 + H_2O \rightarrow XeOF_4 + 2HF$

36. $XeF_6 + SiO_2 \rightarrow XeOF_4(sp^3d^2) + SiF_4$ $6 - 4 = 2$

37. $3Mn_3O_4 + 8Al \rightarrow 4Al_2O_3 + 9Mn$

38. $Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$

39. $4FeS_2 + 11O_2 \rightarrow 2Fe_2O_3 + 8SO_2$

    $2 + 3 + 4 = 9$

40. $[Cu_2S + FeS]$ Matte