



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: 3 Hours

JEE-ADVANCE
2011-P2-Model

Date: 15-11-15
Max Marks: 240

KEY & SOLUTIONS

CHEMISTRY

1	D	2	A	3	A	4	C	5	D	6	A
7	A	8	D	9	AB	10	AB	11	ABCD	12	ABD
13	6	14	4	15	5	16	4	17	7	18	4
19	A - P, S, T; B - Q, R, T; C - P, T; D - Q, R, T		20	A - P, R, S, T; B - P, Q, R, S, T; C - P, Q, T; D - P, Q, T							

PHYSICS

21	C	22	B	23	C	24	B	25	C	26	B
27	A	28	C	29	BD	30	ABD	31	AC	32	ABD
33	7	34	4	35	2	36	9	37	5	38	2
39	A-P, R; B- S; C-P, Q, R; D-P, R		40	A-P, Q; B-R, S; C-Q, R; D-Q, R							

MATHEMATICS

41	B	42	A	43	B	44	A	45	C	46	B
47	C	48	A	49	AC	50	AC	51	BD	52	ABCD
53	0	54	4	55	4	56	4	57	7	58	2
59	A - Q ; B - S ; C - P ; D - P		60	A - Q ; B - R ; C - S ; D - P							

CHEMISTRY

1. Salts with acetate ions gives viniger smell on rubbing with oxalic acid
2. Methylene blue
6. NH_3 , amine, OH^- , CN^- , SCN^- , S^{2-} and acac^- that complex or precipitate Hg^{2+} promote disproportionation of mercurous ion, but halides do not promote because they give precipitate with mercurous ion but not mercuric ion.
9.
$$2\text{Pb}^{2+} + \text{H}_2\text{S} + 2\text{Cl}^- \rightarrow \underset{\text{red}}{\text{Pb}_2\text{SCL}_2} \downarrow + 2\text{H}^+$$
$$\underset{\text{black}}{\text{Pb}_2\text{SCL}_2} + \text{H}_2\text{S} \rightarrow 2\text{PbS} \downarrow + 2\text{HCl}$$
13. First six
14. Last four
15. First five
17. Except $\text{Sc}_{(\text{aq})}^{3+}$ anhydrous CuSO_4
 $\text{Mn}_{(\text{aq})}^{2+}$, $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ – pink
 $\text{CoCl}_2 \cdot 4\text{H}_2\text{O}$, $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ – blue
 Cu_2O – red
 FeCl_3 – dark brown
 $\text{K}_4[\text{Fe}(\text{CN})_6]$ – yellow
18. $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$ is Schweitzer reagent