

Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced (Archive)	Exact Duration : _____

16. Zinc-copper couple that can be used as a reducing agent is obtained by: (1984)
 (A) mixing zinc dust and copper gauze (B) zinc coated with copper
 (C) copper coated with zinc (D) zinc and copper wires welded together
17. State with balanced equation what happens when : (1984)
 Aqueous solution of ferric sulphate and potassium iodide are mixed.
18. State with balanced equation what happens when : (1984)
 Aqueous solution of potassium manganate and acid are mixed.
19. State with balanced equation what happens when : (1984)
 Aqueous solution of potassium chromate and acid are mixed.
20. What happens when : (1985)
 Aqueous ammonia is added drop-wise to a solution of copper sulphate till it is in excess.
21. What happens when : (1985)
 CrCl_3 solution is treated with sodium hydroxide and then with hydrogen peroxide.
22. State with balanced equation what happens when : (1985)
 Potassium permanganate interacts with manganese dioxide in presence of potassium hydroxide.
23. State with balanced equation what happens when : (1985)
 Potassium ferrocyanide is heated with concentrated sulphuric acid.
24. Mention the products formed when zinc oxide is treated with excess of sodium hydroxide solution. (1986)
25. Give reason : (1986)
 Most transition metal compounds are coloured.
26. What is the actual reducing agent of haematite in blast furnace ? (1987)
27. Give reason : (1987)
 Zinc and not copper is used for the recovery of metallic silver from complex $[\text{Ag}(\text{CN})_2]^-$. Explain :
28. State with balanced equation what happens when : Gold is dissolved in aqua regia. (1987)
- *29. Potassium manganate (K_2MnO_4) is formed when : (1988)
 (A) Chlorine is passed into aqueous KMnO_4 solution
 (B) Manganese dioxide is fused with potassium hydroxide in air
 (C) Formaldehyde reacts with potassium permanganate in presence of a strong alkali
 (D) Potassium permanganate reacts with concentrated sulphuric acid
30. Give reason : (1988)
 The colour of mercurous chloride, Hg_2Cl_2 , changes from white to black when treated with ammonia.