

24. When 1 mole of CrCl3.6H2O is treated with excess of AgNO3, 3 moles of AgCl are obtained. The formula of the complex is

(a) [CrCl3(H2O)3].3H2O                                    (b) CrCl2(H2O)4]Cl.2H2O

(c) [CrCl(H2O)5]Cl2.H2O                                   (d) [Cr(H2O)6]Cl3

25. Atomic numbers of Mn, Fe and Co are 25, 26 and 27 respectively. 2. Which of the following inner orbital octahedral complex ions are diamagnetic?

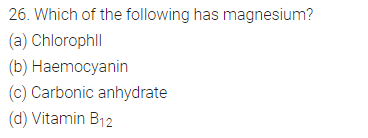
(i) [Co(NH3)6]3+

(ii)[Mn(CN)6]3−

(iii) [Fe(CN)6]4-

(iv) [Fe(CN)6]3−

1. i and ii
2. ii and iii
3. iand iii
4. iv and iii



27. Predict the number of ions produced per formula unit in an aqueous solution

of [Co(en)3]Cl3

(a) 4

(b) 3

(c) 6

(d) 2

