

• Complete the following table.					Marks 6
Formula	Oxidation state of transition metal	Coordination number of transition metal	Number of <i>d</i> -electrons in transition metal	Species formed upon dissolving in water	
Na ₂ [Ni(CN) ₄]	II	4	8	Na ⁺ (aq), [Ni(CN) ₄] ²⁻ (aq)	
[Cr(NH ₃) ₅ Cl]Cl ₂	III	6	3	[Cr(NH ₃) ₅ Cl] ²⁺ (aq), Cl ⁻ (aq)	
[Cu(en) ₃]Br ₂	II	6	9	[Cu(en) ₃] ²⁺ (aq), Br ⁻ (aq)	

en = ethylenediamine = NH₂CH₂CH₂NH₂