

• Complete the following table. (EDTA = ethylenediaminetetraacetate)				Marks 5
Formula	$[\text{Ni}(\text{NH}_3)_6](\text{NO}_3)_2$	<i>trans</i> - $[\text{PtCl}_2(\text{NH}_3)_2]$	$\text{Na}[\text{Fe}(\text{EDTA})]$	
Oxidation state of transition metal ion	+II	+II	+III	
Coordination number of transition metal ion	6	4	6	
Number of <i>d</i> -electrons in the transition metal ion	8	8	5	
Coordination geometry of the complex ion	octahedral	square planar	octahedral	
List all the ligand donor atoms	N	Cl, N	N, O	