

- Complete the following table. (en = ethylenediamine =  $\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$ )

**Marks**  
**9**

Formula	$(\text{NH}_4)_2[\text{CoCl}_4]$	$[\text{Cr}(\text{NH}_3)_5(\text{H}_2\text{O})]\text{Cl}_3$	<i>cis</i> - $[\text{PtCl}_2(\text{en})_2]$
Oxidation state of transition metal ion			
Coordination number of transition metal ion			
Number of <i>d</i> -electrons in the transition metal ion			
Charge of the complex ion			
Geometry of the complex ion			
List all the ligand donor atoms			

**THE REMAINDER OF THIS PAGE IS FOR ROUGH WORKING ONLY.**