

## TRANSITION METALS (B)

1		Give the full electron configuration of the following atoms and ions.
	а	Cr atom
	b	Cr <sup>3+</sup> ion(1
2		The complex $[Cu(H_2O)_6]^{2+}$ reacts irreversible with Na <sub>4</sub> EDTA.
	а	Write an equation for the reaction.
	b	Explain clearly why this reaction is irreversible.
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**3** Complete the table about the following complex ions.

Complex	[Ni(NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub> ) <sub>3</sub> ] <sup>3+</sup>	[CuCl <sub>4</sub> ] <sup>2-</sup>
Sketch of shape		
Name of shape		
Bond angles		
Ligand		
Co-ordination number		
Oxidation state of metal		

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