Answer all questions.		
0 1 . 1	Explain how the electron pair repulsion theory can be used to deduce the shape of, and the bond angle in, ${\sf PF}_3$ <b>[6 marks]</b>	

0 1 . 2	State the full electron configuration of a cobalt(II) ion.  [1 mark]
0 1 . 3	Suggest <b>one</b> reason why electron pair repulsion theory <b>cannot</b> be used to predict the shape of the $[CoCl_4]^{2-}$ ion. [1 mark]
0 1 . 4	Predict the shape of, and the bond angle in, the complex rhodium ion $[RhCl_4]^{2-}$ [2 marks]
	Shape
	Bond angle
	Turn over for the next question

Barcode Typesetter code Turn over