| • | Write out the full name in standard notation of $[Co(NH_3)_4(SCN)_2]Cl$ and draw all the possible isomers of the complex ion. | Marks 7 |
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| | Describe and contrast the nature of the chemical bonds: | |
| | (a) between N and H in NH ₃ ; (b) between Co and NH ₃ ; and (c) between [Co(NH ₃) ₄ (SCN) ₂] and Cl in this compound. | |
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