

Mark schemes

Q1.**C**

They form a cobalt(II) complex with a tetrahedral shape.

[1]**Q2.****A**

$[\text{CoCl}_4]^{2-}$ is square planar.

[1]**Q3.****C**

FeSO_4

[1]**Q4.****C**

They have no effect on the value of the equilibrium constant.

[1]**Q5.****C**

decomposition of ozone

[1]**Q6.****B**

ligand substitution

[1]