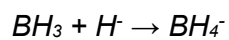


Mark schemes

Q1.

D



[1]

Q2.

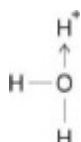
C



[1]

Q3.

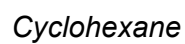
C



[1]

Q4.

C



[1]

Q5.

D



[1]

Q6.

A



[1]

Q7.

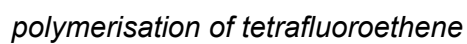
B



[1]

Q8.

B



[1]

Q9.

A

*graphite***[1]****Q10.**

B

*Intermolecular forces are overcome.***[1]****Q11.**

A

 *$[\text{CoCl}_4]^{2-}$ is square planar.***[1]****Q12.**

A

*Co-ordinate bond***[1]****Q13.**

D

*The lone pair electrons in liquid water molecules***[1]****Q14.**

A

*chloromethane with aqueous sodium hydroxide***[1]****Q15.**

C

*poly(propene)***[1]****Q16.**

D

 $\text{FeCl}_3(\text{aq})$ and concentrated $\text{HCl}(\text{aq})$ **[1]**