

## Mark schemes

Q1.

B

*Its  $^{13}\text{C}$  NMR spectrum has 3 peaks.*

[1]

Q2.

B

*Fingerprint region of infrared spectrum*

[1]

Q3.

D

[1]

Q4.

B

*4-hydroxybutanone*

[1]

Q5.

B

[1]

Q6.

A

[1]

Q7.

C

[1]

Q8.

C

[1]

Q9.

A

[1]

**Q10.**  
C

[1]