2.2.3 Exercise 1 – INFRARED SPECTROSCOPY

1. Explain how infra-red spectra are produced.
2. Explain what can be deduced from:
3. The left-hand side of the spectrum (1500 cm-1 – 4000 cm-1)
4. The right-hand side of the spectrum (500 cm-1 – 1500 cm-1)
5. Identify the functional groups present in the molecules responsible for the following spectra:

Molecule A



Molecule B



Molecule C



Molecule Dscores 



Molecule E



Molecule F



1. Give an important use for infra-red spectroscopy