**2.1.1 Exercise 5 - INTRODUCTION TO ORGANIC CHEMISTRY**

1. Draw and name all eleven molecules with the molecular formula C5H10.

2. There are a large number of molecules with molecular formula C6H12. Draw and name:

- two unbranched aliphatic molecules with molecular formula C6H12

- two branched aliphatic molecules with molecular formula C6H12

- two alicyclic molecules with molecular formula C6H12

- two stereoisomers with molecular formula C6H12

3. There are a large number of molecules with molecular formula C6H10. Draw:

* Two molecules containing two C=C bonds
* Two molecules containing one C=C bond
* Two molecules containing no C=C bond

4. Explain the meaning of the term “homologous series”.

5. Explain the meaning of the term “functional group”.