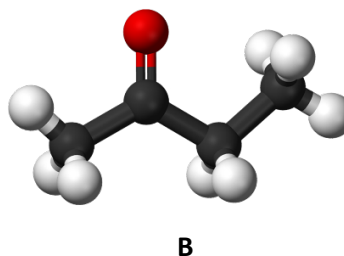
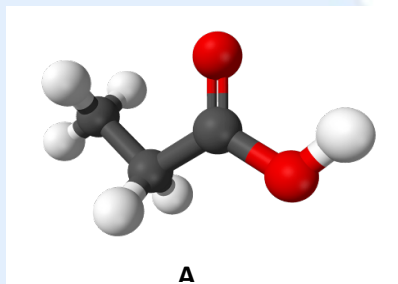
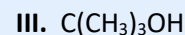
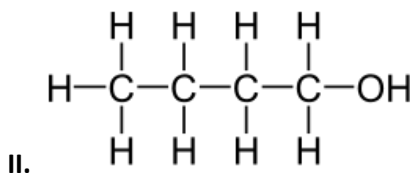
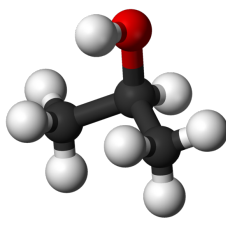


SL & HL Questions on Fundamentals of organic chemistry (2)

- State the condensed structural formulas, together with their IUPAC names, for all the structural isomers of C_6H_{14} .
- Models showing the structural formulas of two compounds **A** and **B**, both with a similar molar mass (74 and 72 g mol^{-1} respectively), are shown below:

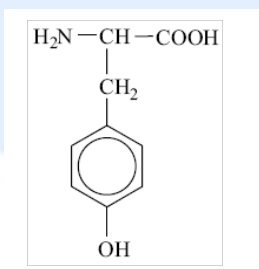


- Identify the functional groups contained in compounds **A** and **B**.
 - State the IUPAC names for compounds **A** and **B**.
 - Deduce which of the two compounds, **A** or **B**, will have the higher boiling point and which will be more soluble in water. Explain your deductions.
- (a) State the IUPAC names of the following three alcohols:



- Classify these three alcohols in terms of primary, secondary or tertiary.
- Identify the functional groups present in:

i. Tyrosine



and **ii.** aspirin

