**Additional questions on Level 3 Organic practical**

***All of the following questions have not (as yet!) appeared in the NCEA Level 3 Exams***

**1. Ethyl Ethanoate is used to decaffeinate tea and coffee, it has a charachteristic sweet pear smell.**

**Discuss in detail the formation of ethyl ethanoate in the lab, using only ethanol as a starting reagent. It is not necessary to use a condensor or separating funnel.**

**You must**

**- draw relevant structural formula**

**- write chemical equations**

**- identify reagents and conditions necessary**

**2. This is a repeat of question 1 (above) however in this case a condensor and separating funnel must be used.**

**Ethyl Ethanoate is used to decaffeinate tea and coffee, it has a charachteristic sweet pear smell.**

**Discuss in detail the formation of ethyl ethanoate in the lab, using only ethanol as a starting reagent. It is essential to use a condensor and separating funnel.**

**You must**

**- draw relevant structural formula**

**- write chemical equations**

**- identify reagents and conditions necessary**

**- include labelled diagrams in your answer**

**3.** Describe how to carry out simple oxidation of the primary, secondary and tertiary isomers of butan-1-ol.

State the reagents and conditions required, draw all structural formula and name the products of each reaction.

**4.** A liebig condensor is an important part of an organic chemistry toolkit. Draw a sketch of a Liebig condensor, describe in detail how it works, which types of reactions it would be used for and give examples with equations showing the reactants, reagents and products.

**5.** Describe the reagents and conditions required to produce... Write condensed structural formula for the reactants and products

**i)** ethanamide for chloroethane

**ii)** propanoyl chloride from propene

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