

School of Chemistry

Chemistry 1B Advanced and SSP (CHEM1902/1904)

Problem Sheet 7

1. Draw the repeating unit of nylon-66, which is formed from the following monomers.

$$H_2N$$
 $+$ Cl Cl Cl Cl

2. What are the products of hydrolysis of the following peptide in concentrated aqueous acid (conc $HCl_{(aq)}$)?

3. Give the reagents required to carry out the following conversions. Draw constitutional formulas for any intermediate compounds. More than one step is necessary in each case.

(a) OH
$$NH_2$$

$$(c) \qquad \qquad C \qquad H \qquad \qquad C \qquad Cl$$