F324-unofficial mark scheme (in progress)

Marks accounted for: 60/60

- Give the systematic name of the alcohol that is formed by this hydrolysis. (1)
 - Propan(e)-1,2,3-triol
- What are the other monomers that make up this polymer? (3)

(Hydrolysed by hot NaOH)

- Two different carboxylic acids with COO'(Na") The monomers have COOH
 as it's not referring to the hyrolysed products but the monomer units of
 the polymer I'm pretty sure that the question said: "What are the other
 products of this hydrolysis" or something along those lines
- One salt had a c=c double bond
- Why are people who drink a lot of goat's milk likely to suffer from CHD? (2)
 - Fatty acids build up in the arteries and lead to CHD?
 - Has trans isomer due to c=c double bond fatty acid linked to LDL's and hence Atherosclerosis
 - Trans-fatty acid in triglyceride of milk increases 'bad' cholesterol levels in blood, resulting in increased risk of coronary heart disease and stroke (straight from the spec)
 - trans fatty acids can pack more tightly and hence have higher melting points than cis fatty acids. --> so more likely to deposit on artery walls
 - The other two molecules were fully saturated fatty acids which would also lead to the formation of atheroma
- State how 4-aminophenol can behave as a base. (1)
- The lone pair on the Nitrogen atom in the amine group can accept a proton, forming a dative covalent bond with it to give NH3+.
- NH2 + H+ ---> NH3+
- 4-Aminophenol is produced by the reduction of 4-nitrophenol. Write an equation to show the production of 4-aminophenol from 4-nitrophenol. Use [H] to represent the reducing agent. (1)
- 4-Nitrophenol + 6[H] = 4 Aminophenol + 2H20
- 4-nitrophenol can be produced from 4-bromophenol. (4)
 - Complete the mechanism for this reaction.
 - Use "NO, as the electrophile. Include any intermediate and the products.
 - In the mechanism for this reaction, NO₂ substitutes for Br on the ring.

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